

PA-0035 US

<110> Kaser, Matthew R.

<120> GENES EXPRESSED IN TREATED HUMAN C3A LIVER CELL CULTURES

<130> PA-0035 US

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<151> 2000-07-28

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<221> unsure
<222> 482, 555
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PA-0035 US

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<223> Incyte ID No: 3201389CD1

Figure 1. The 12th century manuscript of the *Arithmetica* (Paris, Bibliothèque de la Sorbonne, MS 1010, fol. 10v).

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Gln	Pro	Pro	Ala	Pro	Val	Asn	Ile	Ser	Lys	Ala	Ile	Leu	Leu	Gly
				20					25					30
Val	Ile	Leu	Gly	Gly	Leu	Ile	Leu	Phe	Gly	Val	Leu	Gly	Asn	Ile
				35					40					45
Leu	Val	Ile	Leu	Ser	Val	Ala	Cys	His	Arg	His	Leu	His	Ser	Val
				50					55					60
Thr	His	Tyr	Tyr	Ile	Val	Asn	Leu	Ala	Val	Ala	Asp	Leu	Leu	Leu
				65					70					75
Thr	Ser	Thr	Val	Leu	Pro	Phe	Ser	Ala	Ile	Phe	Glu	Val	Leu	Gly
				80					85					90
Tyr	Trp	Ala	Phe	Gly	Arg	Val	Phe	Cys	Asn	Ile	Trp	Ala	Ala	Val
				95					100					105
Asp	Val	Leu	Cys	Cys	Thr	Ala	Ser	Ile	Met	Gly	Leu	Cys	Ile	Ile
				110					115					120
Ser	Ile	Asp	Arg	Tyr	Ile	Gly	Val	Ser	Tyr	Pro	Leu	Arg	Tyr	Pro
				125					130					135
Thr	Ile	Val	Thr	Gln	Arg	Arg	Gly	Leu	Met	Ala	Leu	Leu	Cys	Val
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Trp	Ala	Leu	Ser	Leu	Val	Ile	Ser	Ile	Gly	Pro	Leu	Phe	Gly	Trp
				155					160					165
Arg	Gln	Pro	Ala	Pro	Glu	Asp	Glu	Thr	Ile	Cys	Gln	Ile	Asn	Glu
				170					175					180
Glu	Pro	Gly	Tyr	Val	Leu	Phe	Ser	Ala	Leu	Gly	Ser	Phe	Tyr	Leu
				185					190					195
Pro	Leu	Ala	Ile	Ile	Leu	Val	Met	Tyr	Cys	Arg	Val	Tyr	Val	Val
				200					205					210
Ala	Lys	Arg	Glu	Ser	Arg	Gly	Leu	Lys	Ser	Gly	Leu	Lys	Thr	Asp
				215					220					225
Lys	Ser	Asp	Ser	Glu	Gln	Val	Thr	Leu	Arg	Ile	His	Arg	Lys	Asn
				230					235					240
Ala	Pro	Ala	Gly	Gly	Ser	Gly	Met	Ala	Ser	Ala	Lys	Thr	Lys	Thr
				245					250					255
His	Phe	Ser	Val	Arg	Leu	Leu	Lys	Phe	Ser	Arg	Glu	Lys	Lys	Ala
				260					265					270
Ala	Lys	Thr	Leu	Gly	Ile	Val	Val	Gly	Cys	Phe	Val	Leu	Cys	Trp
				275					280					285
Leu	Pro	Phe	Phe	Leu	Val	Met	Pro	Ile	Gly	Ser	Phe	Phe	Pro	Asp
				290					295					300
Phe	Lys	Pro	Ser	Glu	Thr	Val	Phe	Lys	Ile	Val	Phe	Trp	Leu	Gly
				305					310					315
Tyr	Leu	Asn	Ser	Cys	Ile	Asn	Pro	Ile	Ile	Tyr	Pro	Cys	Ser	Ser
				320					325					330
Gln	Glu	Phe	Lys	Lys	Ala	Phe	Gln	Asn	Val	Leu	Arg	Ile	Gln	Cys
				335					340					345
Leu	Arg	Arg	Lys	Gln	Ser	Ser	Lys	His	Ala	Leu	Gly	Tyr	Thr	Leu

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Gly Val Gly Asp Met Gly Arg Ala Tyr Trp Asp Ile Met Ile Ser
35 40 45
Asn His Gln Asn Ser Asn Arg Tyr Leu Tyr Ala Arg Gly Asn Tyr
50 55 60
Asp Ala Ala Gln Arg Gly Pro Gly Gly Val Trp Ala Ala Lys Leu
65 70 75
Ile Ser Arg Ser Arg Val Tyr Leu Gln Gly Leu Ile Asp Tyr Tyr
80 85 90
Leu Phe Gly Asn Ser Ser Thr Val Leu Glu Asp Ser Lys Ser Asn
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35 40 45
Asp Thr Glu Arg Leu Ile Gly Asp Ala Ala Lys Asn Gln Val Ala
50 55 60
Met Asn Pro Thr Asn Thr Val Phe Asp Ala Lys Arg Leu Ile Gly
65 70 75
Arg Arg Phe Asp Asp Ala Val Val Gln Ser Asp Met Lys His Trp
80 85 90
Pro Phe Met Val Val Asn Asp Ala Gly Arg Pro Lys Val Gln Val
95 100 105
Glu Tyr Lys Gly Glu Thr Lys Ser Phe Tyr Pro Glu Glu Val Ser
110 115 120
Ser Met Val Leu Thr Lys Met Lys Glu Ile Ala Glu Ala Tyr Leu
125 130 135
Gly Lys Thr Val Thr Asn Ala Val Val Thr Val Pro Ala Tyr Phe
140 145 150
Asn Asp Ser Gln Arg Gln Ala Thr Lys Asp Ala Gly Thr Ile Ala
155 160 165
Gly Leu Asn Val Leu Arg Ile Ile Asn Glu Pro Thr Ala Ala Ala
170 175 180
Ile Ala Tyr Gly Leu Asp Lys Lys Val Gly Ala Glu Arg Asn Val
185 190 195
Leu Ile Phe Asp Leu Gly Gly Gly Thr Phe Asp Val Ser Ile Leu
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215 220 225

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Asp

<210> 12
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 50 55 60
 Glu Ala Leu Leu Leu Leu Ala Ala Gly Pro Ala Asp His Leu Leu
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Ser	Tyr	Leu	Tyr	Glu	Val	Met	Glu	Arg	Pro	Arg	His	Gly	Arg	Leu	
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FOUO = CONFIDENTIAL

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Arg Val Ser Gly Pro Tyr Phe Pro Thr Leu Leu Gly Leu Ser Leu	1385	1390	1395
Gln Val Leu Glu Pro Pro Gln His Gly Pro Leu Gln Lys Glu Asp	1400	1405	1410
Gly Pro Gln Ala Arg Thr Leu Ser Ala Phe Ser Trp Arg Met Val	1415	1420	1425
Glu Glu Gln Leu Ile Arg Tyr Val His Asp Gly Ser Glu Thr Leu	1430	1435	1440
Thr Asp Ser Phe Val Leu Met Ala Asn Ala Ser Glu Met Asp Arg	1445	1450	1455
Gln Ser His Pro Val Ala Phe Thr Val Thr Val Leu Pro Val Asn	1460	1465	1470
Asp Gln Pro Pro Ile Leu Thr Thr Asn Thr Gly Leu Gln Met Trp	1475	1480	1485
Glu Gly Ala Thr Ala Pro Ile Pro Ala Glu Ala Leu Arg Ser Thr	1490	1495	1500
Asp Gly Asp Ser Gly Ser Glu Asp Leu Val Tyr Thr Ile Glu Gln	1505	1510	1515
Pro Ser Asn Gly Arg Val Val Leu Arg Gly Ala Pro Gly Thr Glu	1520	1525	1530
Val Arg Ser Phe Thr Gln Ala Gln Leu Asp Gly Gly Leu Val Leu	1535	1540	1545
Phe Ser His Arg Gly Thr Leu Asp Gly Gly Phe Arg Phe Arg Leu	1550	1555	1560
Ser Asp Gly Glu His Thr Ser Pro Gly His Phe Phe Arg Val Thr	1565	1570	1575
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Thr Val Cys Pro Gly Ser Val Gln Pro Leu Ser Ser Gln Thr Leu	1595	1600	1605
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Arg Val Val Arg Gly Pro Gln Leu Gly Arg Leu Phe His Ala Gln	1625	1630	1635
Gln Asp Ser Thr Gly Glu Ala Leu Val Asn Phe Thr Gln Ala Glu	1640	1645	1650
Val Tyr Ala Gly Asn Ile Leu Tyr Glu His Glu Met Pro Pro Glu	1655	1660	1665
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Pro Pro Ala Arg Asp Val Ala Ala Thr Leu Ala Val Ala Val Ser	1685	1690	1695
Phe Glu Ala Ala Cys Pro Gln Arg Pro Ser His Leu Trp Lys Asn	1700	1705	1710
Lys Gly Leu Trp Val Pro Glu Gly Gln Arg Ala Arg Ile Thr Val	1715	1720	1725
Ala Ala Leu Asp Ala Ser Asn Leu Leu Ala Ser Val Pro Ser Pro	1730	1735	1740
Gln Arg Ser Glu His Asp Val Leu Phe Gln Val Thr Gln Phe Pro	1745	1750	1755
Ser Arg Gly Gln Leu Leu Val Ser Glu Glu Pro Leu His Ala Gly	1760	1765	1770
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Gln	Thr	Ser	Glu	Ala	Phe	Ala	Ile	Thr	Val	Arg	Asp	Val	Asn	Glu	
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Arg	Pro	Pro	Gln	Pro	Gln	Ala	Ser	Val	Pro	Leu	Arg	Leu	Thr	Arg	
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Gly	Ser	Arg	Ala	Pro	Ile	Ser	Arg	Ala	Gln	Leu	Ser	Val	Val	Asp	
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Pro	Asp	Ser	Ala	Pro	Gly	Glu	Ile	Glu	Tyr	Glu	Val	Gln	Arg	Ala	
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Pro	His	Asn	Gly	Phe	Leu	Ser	Leu	Val	Gly	Gly	Gly	Leu	Gly	Pro	
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Val	Thr	Arg	Phe	Thr	Gln	Ala	Asp	Val	Asp	Ser	Gly	Arg	Leu	Ala	
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Phe	Val	Ala	Asn	Gly	Ser	Ser	Val	Ala	Gly	Ile	Phe	Gln	Leu	Ser	
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Met	Ser	Asp	Gly	Ala	Ser	Pro	Pro	Leu	Pro	Met	Ser	Leu	Ala	Val	
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Asp	Ile	Leu	Pro	Ser	Ala	Ile	Glu	Val	Gln	Leu	Arg	Ala	Pro	Leu	
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Glu	Val	Pro	Gln	Ala	Leu	Gly	Arg	Ser	Ser	Leu	Ser	Gln	Gln	Gln	
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Leu	Arg	Val	Val	Ser	Asp	Arg	Glu	Glu	Pro	Glu	Ala	Ala	Tyr	Arg	
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Pro	Thr	Ser	Ala	Phe	Ser	Gln	Phe	Gln	Ile	Asp	Gln	Gly	Glu	Val	
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Val	Phe	Ala	Phe	Thr	Asn	Phe	Ser	Ser	Ser	His	Asp	His	Phe	Arg	
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Val	Leu	Ala	Leu	Ala	Arg	Gly	Val	Asn	Ala	Ser	Ala	Val	Val	Asn	
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Ser	Ser	Thr	Pro	Thr	Gly	Glu	Pro	Gly	Pro	Met	Ala	Ser	Ser	Pro	
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Glu Pro Ala Val Ala Lys Gly Gly Phe Leu Ser Phe Leu Glu Ala
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2255 2260 2265
Asn Gly Leu Ala Gly Asp Thr Glu Thr Phe Arg Lys Val Glu Pro
2270 2275 2280
Gly Gln Ala Ile Pro Leu Thr Ala Val Pro Gly Gln Gly Pro Pro
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Met	Met	Ser	Met	Asn	Met	Phe	Thr	Gly	Asn	Asn	Lys	Ile	Cys	Gly
				35					40					45
Trp	Asn	Tyr	Glu	Cys	Pro	Lys	Phe	Glu	Glu	Asp	Val	Leu	Ser	Ser
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Asp	Ile	Ile	Ile	Leu	Thr	Ile	Thr	Arg	Cys	Ile	Ala	Ile	Leu	Tyr
				65					70					75
Ile	Tyr	Phe	Gln	Phe	Gln	Asn	Leu	Arg	Gln	Leu	Gly	Ser	Lys	Tyr
				80					85					90
Ile	Leu	Gly	Ile	Ala	Gly	Leu	Phe	Thr	Ile	Phe	Ser	Ser	Phe	Val
				95					100					105
Phe	Ser	Thr	Val	Val	Ile	His	Phe	Leu	Asp	Lys	Glu	Leu	Thr	Gly
				110					115					120
Leu	Asn	Glu	Ala	Leu	Pro	Phe	Phe	Leu	Leu	Leu	Ile	Asp	Leu	Ser
				125					130					135
Arg	Ala	Ser	Thr	Leu	Ala	Lys	Phe	Ala	Leu	Ser	Ser	Asn	Ser	Gln
				140					145					150
Asp	Glu	Val	Arg	Glu	Asn	Ile	Ala	Arg	Gly	Met	Ala	Ile	Leu	Gly
				155					160					165
Pro	Thr	Phe	Thr	Leu	Asp	Ala	Leu	Val	Glu	Cys	Leu	Val	Ile	Gly
				170					175					180
Val	Gly	Thr	Met	Ser	Gly	Val	Arg	Gln	Leu	Glu	Ile	Met	Cys	Cys
				185					190					195
Phe	Gly	Cys	Met	Ser	Val	Leu	Ala	Asn	Tyr	Phe	Val	Phe	Met	Thr
				200					205					210
Phe	Phe	Pro	Ala	Cys	Val	Ser	Leu	Val	Leu	Glu	Leu	Ser	Arg	Glu
				215					220					225
Ser	Arg	Glu	Gly	Arg	Pro	Ile	Trp	Gln	Leu	Ser	His	Phe	Ala	Arg
				230					235					240
Val	Leu	Glu	Glu	Glu	Glu	Asn	Lys	Pro	Asn	Pro	Val	Thr	Gln	Arg
				245					250					255
Val	Lys	Met	Ile	Met	Ser	Leu	Gly	Leu	Val	Leu	Val	His	Ala	His
				260					265					270
Ser	Arg	Trp	Ile	Ala	Asp	Pro	Ser	Pro	Gln	Asn	Ser	Thr	Ala	Asp
				275					280					285
Thr	Ser	Lys	Val	Ser	Leu	Gly	Leu	Asp	Glu	Asn	Val	Ser	Lys	Arg
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Ile	Glu	Pro	Ser	Val	Ser	Leu	Trp	Gln	Phe	Tyr	Leu	Ser	Lys	Met
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Ile	Ser	Met	Asp	Ile	Glu	Gln	Val	Ile	Thr	Leu	Ser	Leu	Ala	Leu
				320					325					330
Leu	Leu	Ala	Val	Lys	Tyr	Ile	Phe	Phe	Glu	Gln	Thr	Glu	Thr	Glu
				335					340					345
Ser	Thr	Leu	Ser	Leu	Lys	Asn	Pro	Ile	Thr	Ser	Pro	Val	Val	Thr
				350					355					360
Gln	Lys	Lys	Val	Pro	Asp	Asn	Cys	Cys	Arg	Arg	Glu	Pro	Met	Leu
				365					370					375
Val	Arg	Asn	Asn	Gln	Lys	Cys	Asp	Ser	Val	Glu	Glu	Glu	Thr	Gly
				380					385					390
Ile	Asn	Arg	Glu	Arg	Lys	Val	Glu	Val	Ile	Lys	Pro	Leu	Val	Ala
				395					400					405
Glu	Thr	Asp	Thr	Pro	Asn	Arg	Ala	Thr	Phe	Val	Val	Gly	Asn	Ser

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Ser Leu Leu Asp	Thr Ser Ser Val Leu	Val Thr Gln Glu Pro	Glu
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425	430	435	
Ile Glu Leu Pro	Arg Glu Pro Arg Pro	Asn Glu Glu Cys Leu	Gln
440	445	450	
Ile Leu Gly Asn	Ala Glu Lys Gly Ala	Lys Phe Leu Ser Asp	Ala
455	460	465	
Glu Ile Ile Gln	Leu Val Asn Ala Lys	His Ile Pro Ala Tyr	Lys
470	475	480	
Leu Glu Thr Leu	Met Glu Thr His Glu	Arg Gly Val Ser Ile	Arg
485	490	495	
Arg Gln Leu Leu	Ser Lys Lys Leu Ser	Glu Pro Ser Ser Leu	Gln
500	505	510	
Tyr Leu Pro Tyr	Arg Asp Tyr Asn Tyr	Ser Leu Val Met Gly	Ala
515	520	525	
Cys Cys Glu Asn	Val Ile Gly Tyr Met	Pro Ile Pro Val Gly	Val
530	535	540	
Ala Gly Pro Leu	Cys Leu Asp Glu Lys	Glu Phe Gln Val Pro	Met
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Ala Thr Thr Glu	Gly Cys Leu Val Ala	Ser Thr Asn Arg Gly	Cys
560	565	570	
Arg Ala Ile Gly	Leu Gly Gly Gly Ala	Ser Ser Arg Val Leu	Ala
575	580	585	
Asp Gly Met Thr	Arg Gly Pro Val Val	Arg Leu Pro Arg Ala	Cys
590	595	600	
Asp Ser Ala Glu	Val Lys Ala Trp Leu	Glu Thr Ser Glu Gly	Phe
605	610	615	
Ala Val Ile Lys	Glu Ala Phe Asp Ser	Thr Ser Arg Phe Ala	Arg
620	625	630	
Leu Gln Lys Leu	His Thr Ser Ile Ala	Gly Arg Asn Leu Tyr	Ile
635	640	645	
Arg Phe Gln Ser	Arg Ser Gly Asp Ala	Met Gly Met Asn Met	Ile
650	655	660	
Ser Lys Gly Thr	Glu Lys Ala Leu Ser	Lys Leu His Glu Tyr	Phe
665	670	675	
Pro Glu Met Gln	Ile Leu Ala Val Ser	Gly Asn Tyr Cys Thr	Asp
680	685	690	
Lys Lys Pro Ala	Ala Ile Asn Trp Ile	Glu Gly Arg Gly Lys	Ser
695	700	705	
Val Val Cys Glu	Ala Val Ile Pro Ala	Lys Val Val Arg Glu	Val
710	715	720	
Leu Lys Thr Thr	Thr Glu Ala Met Ile	Glu Val Asn Ile Asn	Lys
725	730	735	
Asn Leu Val Gly	Ser Ala Met Ala Gly	Ser Ile Gly Gly Tyr	Asn
740	745	750	
Ala His Ala Ala	Asn Ile Val Thr Ala	Ile Tyr Ile Ala Cys	Gly
755	760	765	
Gln Asp Ala Ala	Gln Asn Val Gly Ser	Ser Asn Cys Ile Thr	Leu
770	775	780	
Met Glu Ala Ser	Gly Pro Thr Asn Glu	Asp Leu Tyr Ile Ser	Cys
785	790	795	
Thr Met Pro Ser	Ile Glu Ile Gly Thr	Val Gly Gly Gly Thr	Asn
800	805	810	
Leu Leu Pro Gln	Gln Ala Cys Leu Gln	Met Leu Gly Val Gln	Gly
815	820	825	
Ala Cys Lys Asp	Asn Pro Gly Glu Asn	Ala Arg Gln Leu Ala	Arg

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Ile Val Cys Gly	830	835	840
Thr Val Met Ala Gly		Glu Leu Ser Leu Met	Ala
	845	850	855
Ala Leu Ala Ala	Gly His Leu Val Lys	Ser His Met Ile His	Asn
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Arg Ser Lys Ile	Asn Leu Gln Asp Leu	Gln Gly Ala Cys Thr	Lys
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Lys Thr Ala

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Glu	Glu	Asn	Leu	Thr	Gln	Glu	Asn	Gln	Asp	Arg	Gly	Thr	His	Val	
			35						40					45	
Asp	Leu	Gly	Leu	Ala	Ser	Ala	Asn	Val	Asp	Phe	Ala	Phe	Ser	Leu	
			50						55					60	
Tyr	Lys	Gln	Leu	Val	Leu	Lys	Ala	Pro	Asp	Lys	Asn	Val	Ile	Phe	
			65						70					75	
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His	Ala	Val	Ala	Glu	Pro	Ala	Ser	Pro	Glu	Gln	Glu	Leu	Asp	Gln	305	310	315
Asn	Lys	Gly	Lys	Gly	Arg	Asp	Val	Glu	Ser	Val	Gln	Thr	Pro	Ser	320	325	330
Lys	Ala	Val	Gly	Ala	Ser	Phe	Pro	Leu	Tyr	Glu	Pro	Ala	Lys	Met	335	340	345
Lys	Thr	Pro	Val	Gln	Tyr	Ser	Gln	Gln	Gln	Asn	Ser	Pro	Gln	Lys	350	355	360
His	Lys	Asn	Lys	Asp	Leu	Tyr	Thr	Thr	Gly	Arg	Arg	Glu	Ser	Val	365	370	375
Asn	Leu	Gly	Lys	Ser	Glu	Gly	Phe	Lys	Ala	Gly	Asp	Lys	Thr	Leu	380	385	390
Thr	Pro	Arg	Lys	Leu	Ser	Thr	Arg	Asn	Arg	Thr	Pro	Ala	Lys	Val	395	400	405
Glu	Asp	Ala	Ala	Asp	Ser	Ala	Thr	Lys	Pro	Glu	Asn	Leu	Ser	Ser	410	415	420
Lys	Thr	Arg	Gly	Ser	Ile	Pro	Thr	Asp	Val	Glu	Val	Leu	Pro	Thr	425	430	435
Glu	Thr	Glu	Ile	His	Asn	Glu	Pro	Phe	Leu	Thr	Leu	Trp	Leu	Thr	440	445	450
Gln	Val	Glu	Arg	Lys	Ile	Gln	Lys	Asp	Ser	Leu	Ser	Lys	Pro	Glu	455	460	465
Lys	Leu	Gly	Thr	Thr	Ala	Gly	Gln	Met	Cys	Ser	Gly	Leu	Pro	Gly	470	475	480
Leu	Ser	Ser	Val	Asp	Ile	Asn	Asn	Phe	Gly	Asp	Ser	Ile	Asn	Glu	485	490	495
Ser	Glu	Gly	Ile	Pro	Leu	Lys	Arg	Arg	Arg	Val	Ser	Phe	Gly	Gly	500	505	510
His	Leu	Arg	Pro	Glu	Leu	Phe	Asp	Glu	Asn	Leu	Pro	Pro	Asn	Thr	515	520	525
Pro	Leu	Lys	Arg	Gly	Glu	Ala	Pro	Thr	Lys	Arg	Lys	Ser	Leu	Val	530	535	540
Met	His	Thr	Pro	Pro	Val	Leu	Lys	Lys	Ile	Ile	Lys	Glu	Gln	Pro	545	550	555
Gln	Pro	Ser	Gly	Lys	Gln	Glu	Ser	Gly	Ser	Glu	Ile	His	Val	Glu	560	565	570
Val	Lys	Ala	Gln	Ser	Leu	Val	Ile	Ser	Pro	Pro	Ala	Pro	Ser	Pro	575	580	585
Arg	Lys	Thr	Pro	Val	Ala	Ser	Asp	Gln	Arg	Arg	Arg	Ser	Cys	Lys	590	595	600
Thr	Ala	Pro	Ala	Ser	Ser	Ser	Lys	Ser	Gln	Thr	Glu	Val	Pro	Lys	605	610	615

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Arg Gly Gly Glu	Arg Val Ala Thr Cys	Leu Gln Lys Arg Val	Ser
620	625	630	
Ile Ser Arg Ser	Gln His Asp Ile Leu	Gln Met Ile Cys Ser	Lys
635	640	645	
Arg Arg Ser Gly	Ala Ser Glu Ala Asn	Leu Ile Val Ala Lys	Ser
650	655	660	
Trp Ala Asp Val	Val Lys Leu Gly Ala	Lys Gln Thr Gln Thr	Lys
665	670	675	
Val Ile Lys His	Gly Pro Gln Arg Ser	Met Asn Lys Arg Gln	Arg
680	685	690	
Arg Pro Ala Thr	Pro Lys Lys Pro Val	Gly Glu Val His Ser	Gln
695	700	705	
Phe Ser Thr Gly	His Ala Asn Ser Pro	Cys Thr Ile Ile Ile	Gly
710	715	720	
Lys Ala His Thr	Glu Lys Val His Val	Pro Ala Arg Pro Tyr	Arg
725	730	735	
Val Leu Asn Asn	Phe Ile Ser Asn Gln	Lys Met Asp Phe Lys	Glu
740	745	750	
Asp Leu Ser Gly	Ile Ala Glu Met Phe	Lys Thr Pro Val Lys	Glu
755	760	765	
Gln Pro Gln Leu	Thr Ser Thr Cys His	Ile Ala Ile Ser Asn	Ser
770	775	780	
Glu Asn Leu Leu	Gly Lys Gln Phe Gln	Gly Thr Asp Ser Gly	Glu
785	790	795	
Glu Pro Leu Leu	Pro Thr Ser Glu Ser	Phe Gly Gly Asn Val	Phe
800	805	810	
Phe Ser Ala Gln	Asn Ala Ala Lys Gln	Pro Ser Asp Lys Cys	Ser
815	820	825	
Ala Ser Pro Pro	Leu Arg Arg Gln Cys	Ile Arg Glu Asn Gly	Asn
830	835	840	
Val Ala Lys Thr	Pro Arg Asn Thr Tyr	Lys Met Thr Ser Leu	Glu
845	850	855	
Thr Lys Thr Ser	Asp Thr Glu Thr Glu	Pro Ser Lys Thr Val	Ser
860	865	870	
Thr Val Asn Arg	Ser Gly Arg Ser Thr	Glu Phe Arg Asn Ile	Gln
875	880	885	
Lys Leu Pro Val	Glu Ser Lys Ser Glu	Glu Thr Asn Thr Glu	Ile
890	895	900	
Val Glu Cys Ile	Leu Lys Arg Gly Gln	Lys Ala Thr Leu Leu	Gln
905	910	915	
Gln Arg Arg Glu	Gly Glu Met Lys Glu	Ile Glu Arg Pro Phe	Glu
920	925	930	
Thr Tyr Lys Glu	Asn Ile Glu Leu Lys	Glu Asn Asp Glu Lys	Met
935	940	945	
Lys Ala Met Lys	Arg Ser Arg Thr Trp	Gly Gln Lys Cys Ala	Pro
950	955	960	
Met Ser Asp Leu	Thr Asp Leu Lys Ser	Leu Pro Asp Thr Glu	Leu
965	970	975	
Met Lys Asp Thr	Ala Arg Gly Gln Asn	Leu Leu Gln Thr Gln	Asp
980	985	990	
His Ala Lys Ala	Pro Lys Ser Glu Lys	Gly Lys Ile Thr Lys	Met
995	1000	1005	
Pro Cys Gln Ser	Leu Gln Pro Glu Pro	Ile Asn Thr Pro Thr	His
1010	1015	1020	
Thr Lys Gln Gln	Leu Lys Ala Ser Leu	Gly Lys Val Gly Val	Lys
1025	1030	1035	

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Glu	Glu	Leu	Leu	Ala	Val	Gly	Lys	Phe	Thr	Arg	Thr	Ser	Gly	Glu	
				1040					1045					1050	
Thr	Thr	His	Thr	His	Arg	Glu	Pro	Ala	Gly	Asp	Gly	Lys	Ser	Ile	
				1055					1060					1065	
Arg	Thr	Phe	Lys	Glu	Ser	Pro	Lys	Gln	Ile	Leu	Asp	Pro	Ala	Ala	
				1070					1075					1080	
Arg	Val	Thr	Gly	Met	Lys	Lys	Trp	Pro	Arg	Thr	Pro	Lys	Glu	Glu	
				1085					1090					1095	
Ala	Gln	Ser	Leu	Glu	Asp	Leu	Ala	Gly	Phe	Lys	Glu	Leu	Phe	Gln	
				1100					1105					1110	
Thr	Pro	Gly	Pro	Ser	Glu	Glu	Ser	Met	Thr	Asp	Glu	Lys	Thr	Thr	
				1115					1120					1125	
Lys	Ile	Ala	Cys	Lys	Ser	Pro	Pro	Pro	Glu	Ser	Val	Asp	Thr	Pro	
				1130					1135					1140	
Thr	Ser	Thr	Lys	Gln	Trp	Pro	Lys	Arg	Ser	Leu	Arg	Lys	Ala	Asp	
				1145					1150					1155	
Val	Glu	Glu	Glu	Phe	Leu	Ala	Leu	Arg	Lys	Leu	Thr	Pro	Ser	Ala	
				1160					1165					1170	
Gly	Lys	Ala	Met	Leu	Thr	Pro	Lys	Pro	Ala	Gly	Gly	Asp	Glu	Lys	
				1175					1180					1185	
Asp	Ile	Lys	Ala	Phe	Met	Gly	Thr	Pro	Val	Gln	Lys	Leu	Asp	Leu	
				1190					1195					1200	
Ala	Gly	Thr	Leu	Pro	Gly	Ser	Lys	Arg	Gln	Leu	Gln	Thr	Pro	Lys	
				1205					1210					1215	
Glu	Lys	Ala	Gln	Ala	Leu	Glu	Asp	Leu	Ala	Gly	Phe	Lys	Glu	Leu	
				1220					1225					1230	
Phe	Gln	Thr	Pro	Gly	His	Thr	Glu	Glu	Leu	Val	Ala	Ala	Gly	Lys	
				1235					1240					1245	
Thr	Thr	Lys	Ile	Pro	Cys	Asp	Ser	Pro	Gln	Ser	Asp	Pro	Val	Asp	
				1250					1255					1260	
Thr	Pro	Thr	Ser	Thr	Lys	Gln	Arg	Pro	Lys	Arg	Ser	Ile	Arg	Lys	
				1265					1270					1275	
Ala	Asp	Val	Glu	Gly	Glu	Leu	Leu	Ala	Cys	Arg	Asn	Leu	Met	Pro	
				1280					1285					1290	
Ser	Ala	Gly	Lys	Ala	Met	His	Thr	Pro	Lys	Pro	Ser	Val	Gly	Glu	
				1295					1300					1305	
Glu	Lys	Asp	Ile	Ile	Ile	Phe	Val	Gly	Thr	Pro	Val	Gln	Lys	Leu	
				1310					1315					1320	
Asp	Leu	Thr	Glu	Asn	Leu	Thr	Gly	Ser	Lys	Arg	Arg	Pro	Gln	Thr	
				1325					1330					1335	
Pro	Lys	Glu	Glu	Ala	Gln	Ala	Leu	Glu	Asp	Leu	Thr	Gly	Phe	Lys	
				1340					1345					1350	
Glu	Leu	Phe	Gln	Thr	Pro	Gly	His	Thr	Glu	Glu	Ala	Val	Ala	Ala	
				1355					1360					1365	
Gly	Lys	Thr	Thr	Lys	Met	Pro	Cys	Glu	Ser	Ser	Pro	Pro	Glu	Ser	
				1370					1375					1380	
Ala	Asp	Thr	Pro	Thr	Ser	Thr	Arg	Arg	Gln	Pro	Lys	Thr	Pro	Leu	
				1385					1390					1395	
Glu	Lys	Arg	Asp	Val	Gln	Lys	Glu	Leu	Ser	Ala	Leu	Lys	Lys	Leu	
				1400					1405					1410	
Thr	Gln	Thr	Ser	Gly	Glu	Thr	Thr	His	Thr	Asp	Lys	Val	Pro	Gly	
				1415					1420					1425	
Gly	Glu	Asp	Lys	Ser	Ile	Asn	Ala	Phe	Arg	Glu	Thr	Ala	Lys	Gln	
				1430					1435					1440	
Lys	Leu	Asp	Pro	Ala	Ala	Ser	Val	Thr	Gly	Ser	Lys	Arg	His	Pro	
				1445					1450					1455	

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Lys Thr Lys Glu Lys Ala Gln Pro Leu Glu Asp Leu Ala Gly Trp
1460 1465 1470
Lys Glu Leu Phe Gln Thr Pro Val Cys Thr Asp Lys Pro Thr Thr
1475 1480 1485
His Glu Lys Thr Thr Lys Ile Ala Cys Arg Ser Gln Pro Asp Pro
1490 1495 1500
Val Asp Thr Pro Thr Ser Ser Lys Pro Gln Ser Lys Arg Ser Leu
1505 1510 1515
Arg Lys Val Asp Val Glu Glu Glu Phe Phe Ala Leu Arg Lys Arg
1520 1525 1530
Thr Pro Ser Ala Gly Lys Ala Met His Thr Pro Lys Pro Ala Val
1535 1540 1545
Ser Gly Glu Lys Asn Ile Tyr Ala Phe Met Gly Thr Pro Val Gln
1550 1555 1560
Lys Leu Asp Leu Thr Glu Asn Leu Thr Gly Ser Lys Arg Arg Leu
1565 1570 1575
Gln Thr Pro Lys Glu Lys Ala Gln Ala Leu Glu Asp Leu Ala Gly
1580 1585 1590
Phe Lys Glu Leu Phe Gln Thr Arg Gly His Thr Glu Glu Ser Met
1595 1600 1605
Thr Asn Asp Lys Thr Ala Lys Val Ala Cys Lys Ser Ser Gln Pro
1610 1615 1620
Asp Leu Asp Lys Asn Pro Ala Ser Ser Lys Arg Arg Leu Lys Thr
1625 1630 1635
Ser Leu Gly Lys Val Gly Val Lys Glu Glu Leu Leu Ala Val Gly
1640 1645 1650
Lys Leu Thr Gln Thr Ser Gly Glu Thr Thr His Thr His Thr Glu
1655 1660 1665
Pro Thr Gly Asp Gly Lys Ser Met Lys Ala Phe Met Glu Ser Pro
1670 1675 1680
Lys Gln Ile Leu Asp Ser Ala Ala Ser Leu Thr Gly Ser Lys Arg
1685 1690 1695
Gln Leu Arg Thr Pro Lys Gly Lys Ser Glu Val Pro Glu Asp Leu
1700 1705 1710
Ala Gly Phe Ile Glu Leu Phe Gln Thr Pro Ser His Thr Lys Glu
1715 1720 1725
Ser Met Thr Asn Glu Lys Thr Thr Lys Val Ser Tyr Arg Ala Ser
1730 1735 1740
Gln Pro Asp Leu Val Asp Thr Pro Thr Ser Ser Lys Pro Gln Pro
1745 1750 1755
Lys Arg Ser Leu Arg Lys Ala Asp Thr Glu Glu Glu Phe Leu Ala
1760 1765 1770
Phe Arg Lys Gln Thr Pro Ser Ala Gly Lys Ala Met His Thr Pro
1775 1780 1785
Lys Pro Ala Val Gly Glu Glu Lys Asp Ile Asn Thr Phe Leu Gly
1790 1795 1800
Thr Pro Val Gln Lys Leu Asp Gln Pro Gly Asn Leu Pro Gly Ser
1805 1810 1815
Asn Arg Arg Leu Gln Thr Arg Lys Glu Lys Ala Gln Ala Leu Glu
1820 1825 1830
Glu Leu Thr Gly Phe Arg Glu Leu Phe Gln Thr Pro Cys Thr Asp
1835 1840 1845
Asn Pro Thr Thr Asp Glu Lys Thr Thr Lys Lys Ile Leu Cys Lys
1850 1855 1860
Ser Pro Gln Ser Asp Pro Ala Asp Thr Pro Thr Asn Thr Lys Gln
1865 1870 1875

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Arg	Pro	Lys	Arg	Ser	Leu	Lys	Lys	Ala	Asp	Val	Glu	Glu	Glu	Phe
				1880					1885					1890
Leu	Ala	Phe	Arg	Lys	Leu	Thr	Pro	Ser	Ala	Gly	Lys	Ala	Met	His
				1895					1900					1905
Thr	Pro	Lys	Ala	Ala	Val	Gly	Glu	Glu	Lys	Asp	Ile	Asn	Thr	Phe
				1910					1915					1920
Val	Gly	Thr	Pro	Val	Glu	Lys	Leu	Asp	Leu	Leu	Gly	Asn	Leu	Pro
				1925					1930					1935
Gly	Ser	Lys	Arg	Arg	Pro	Gln	Thr	Pro	Lys	Glu	Lys	Ala	Lys	Ala
				1940					1945					1950
Leu	Glu	Asp	Leu	Ala	Gly	Phe	Lys	Glu	Leu	Phe	Gln	Thr	Pro	Gly
				1955					1960					1965
His	Thr	Glu	Glu	Ser	Met	Thr	Asp	Asp	Lys	Ile	Thr	Glu	Val	Ser
				1970					1975					1980
Cys	Lys	Ser	Pro	Gln	Pro	Asp	Pro	Val	Lys	Thr	Pro	Thr	Ser	Ser
				1985					1990					1995
Lys	Gln	Arg	Leu	Lys	Ile	Ser	Leu	Gly	Lys	Val	Gly	Val	Lys	Glu
				2000					2005					2010
Glu	Val	Leu	Pro	Val	Gly	Lys	Leu	Thr	Gln	Thr	Ser	Gly	Lys	Thr
				2015					2020					2025
Thr	Gln	Thr	His	Arg	Glu	Thr	Ala	Gly	Asp	Gly	Lys	Ser	Ile	Lys
				2030					2035					2040
Ala	Phe	Lys	Glu	Ser	Ala	Lys	Gln	Met	Leu	Asp	Pro	Ala	Asn	Tyr
				2045					2050					2055
Gly	Thr	Gly	Met	Glu	Arg	Trp	Pro	Arg	Thr	Pro	Lys	Glu	Glu	Ala
				2060					2065					2070
Gln	Ser	Leu	Glu	Asp	Leu	Ala	Gly	Phe	Lys	Glu	Leu	Phe	Gln	Thr
				2075					2080					2085
Pro	Asp	His	Thr	Glu	Glu	Ser	Thr	Thr	Asp	Asp	Lys	Thr	Thr	Lys
				2090					2095					2100
Ile	Ala	Cys	Lys	Ser	Pro	Pro	Pro	Glu	Ser	Met	Asp	Thr	Pro	Thr
				2105					2110					2115
Ser	Thr	Arg	Arg	Arg	Pro	Lys	Thr	Pro	Leu	Gly	Lys	Arg	Asp	Ile
				2120					2125					2130
Val	Glu	Glu	Leu	Ser	Ala	Leu	Lys	Gln	Leu	Thr	Gln	Thr	Thr	His
				2135					2140					2145
Thr	Asp	Lys	Val	Pro	Gly	Asp	Glu	Asp	Lys	Gly	Ile	Asn	Val	Phe
				2150					2155					2160
Arg	Glu	Thr	Ala	Lys	Gln	Lys	Leu	Asp	Pro	Ala	Ala	Ser	Val	Thr
				2165					2170					2175
Gly	Ser	Lys	Arg	Gln	Pro	Arg	Thr	Pro	Lys	Gly	Lys	Ala	Gln	Pro
				2180					2185					2190
Leu	Glu	Asp	Leu	Ala	Gly	Leu	Lys	Glu	Leu	Phe	Gln	Thr	Pro	Ile
				2195					2200					2205
Cys	Thr	Asp	Lys	Pro	Thr	Thr	His	Glu	Lys	Thr	Thr	Lys	Ile	Ala
				2210					2215					2220
Cys	Arg	Ser	Pro	Gln	Pro	Asp	Pro	Val	Gly	Thr	Pro	Thr	Ile	Phe
				2225					2230					2235
Lys	Pro	Gln	Ser	Lys	Arg	Ser	Leu	Arg	Lys	Ala	Asp	Val	Glu	Glu
				2240					2245					2250
Glu	Ser	Leu	Ala	Leu	Arg	Lys	Arg	Thr	Pro	Ser	Val	Gly	Lys	Ala
				2255					2260					2265
Met	Asp	Thr	Pro	Lys	Pro	Ala	Gly	Gly	Asp	Glu	Lys	Asp	Met	Lys
				2270					2275					2280
Ala	Phe	Met	Gly	Thr	Pro	Val	Gln	Lys	Leu	Asp	Leu	Pro	Gly	Asn
				2285					2290					2295

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Leu Pro Gly Ser Lys Arg Trp Pro Gln Thr	Pro Lys Glu Lys Ala
2300	2305 2310
Gln Ala Leu Glu Asp Leu Ala Gly Phe Lys Glu Leu Phe Gln Thr	
2315	2320 2325
Pro Gly Thr Asp Lys Pro Thr Thr Asp Glu Lys Thr Thr Lys Ile	
2330	2335 2340
Ala Cys Lys Ser Pro Gln Pro Asp Pro Val Asp Thr Pro Ala Ser	
2345	2350 2355
Thr Lys Gln Arg Pro Lys Arg Asn Leu Arg Lys Ala Asp Val Glu	
2360	2365 2370
Glu Glu Phe Leu Ala Leu Arg Lys Arg Thr Pro Ser Ala Gly Lys	
2375	2380 2385
Ala Met Asp Thr Pro Lys Pro Ala Val Ser Asp Glu Lys Asn Ile	
2390	2395 2400
Asn Thr Phe Val Glu Thr Pro Val Gln Lys Leu Asp Leu Leu Gly	
2405	2410 2415
Asn Leu Pro Gly Ser Lys Arg Gln Pro Gln Thr Pro Lys Glu Lys	
2420	2425 2430
Ala Glu Ala Leu Glu Asp Leu Val Gly Phe Lys Glu Leu Phe Gln	
2435	2440 2445
Thr Pro Gly His Thr Glu Glu Ser Met Thr Asp Asp Lys Ile Thr	
2450	2455 2460
Glu Val Ser Cys Lys Ser Pro Gln Pro Glu Ser Phe Lys Thr Ser	
2465	2470 2475
Arg Ser Ser Lys Gln Arg Leu Lys Ile Pro Leu Val Lys Val Asp	
2480	2485 2490
Met Lys Glu Glu Pro Leu Ala Val Ser Lys Leu Thr Arg Thr Ser	
2495	2500 2505
Gly Glu Thr Thr Gln Thr His Thr Glu Pro Thr Gly Asp Ser Lys	
2510	2515 2520
Ser Ile Lys Ala Phe Lys Glu Ser Pro Lys Gln Ile Leu Asp Pro	
2525	2530 2535
Ala Ala Ser Val Thr Gly Ser Arg Arg Gln Leu Arg Thr Arg Lys	
2540	2545 2550
Glu Lys Ala Arg Ala Leu Glu Asp Leu Val Asp Phe Lys Glu Leu	
2555	2560 2565
Phe Ser Ala Pro Gly His Thr Glu Glu Ser Met Thr Ile Asp Lys	
2570	2575 2580
Asn Thr Lys Ile Pro Cys Lys Ser Pro Pro Pro Glu Leu Thr Asp	
2585	2590 2595
Thr Ala Thr Ser Thr Lys Arg Cys Pro Lys Thr Arg Leu Arg Lys	
2600	2605 2610
Glu Val Lys Glu Glu Leu Ser Ala Val Glu Arg Leu Thr Gln Thr	
2615	2620 2625
Ser Gly Gln Ser Thr His Thr His Lys Glu Pro Ala Ser Gly Asp	
2630	2635 2640
Glu Gly Ile Lys Val Leu Lys Gln Arg Ala Lys Lys Lys Pro Asn	
2645	2650 2655
Pro Val Glu Glu Glu Pro Ser Arg Arg Arg Pro Arg Ala Pro Lys	
2660	2665 2670
Glu Lys Ala Gln Pro Leu Glu Asp Leu Ala Gly Phe Thr Glu Leu	
2675	2680 2685
Ser Glu Thr Ser Gly His Thr Gln Glu Ser Leu Thr Ala Gly Lys	
2690	2695 2700
Ala Thr Lys Ile Pro Cys Glu Ser Pro Pro Leu Glu Val Val Asp	
2705	2710 2715

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Thr Thr Ala Ser Thr	Lys Arg His Leu Arg	Thr Arg Val Gln Lys
2720	2725	2730
Val Gln Val Lys Glu Glu Pro Ser Ala Val	Lys Phe Thr Gln Thr	
2735	2740	2745
Ser Gly Glu Thr Thr	Asp Ala Asp Lys Glu Pro Ala Gly Glu Asp	
2750	2755	2760
Lys Gly Ile Lys Ala Leu Lys Glu Ser Ala	Lys Gln Thr Pro Ala	
2765	2770	2775
Pro Ala Ala Ser Val Thr Gly Ser Arg Arg	Arg Pro Arg Ala Pro	
2780	2785	2790
Arg Glu Ser Ala Gln Ala Ile Glu Asp Leu Ala Gly Phe Lys Asp		
2795	2800	2805
Pro Ala Ala Gly His Thr Glu Glu Ser Met Thr Asp Asp Lys Thr		
2810	2815	2820
Thr Lys Ile Pro Cys Lys Ser Ser Pro Glu Leu Glu Asp Thr Ala		
2825	2830	2835
Thr Ser Ser Lys Arg Arg Pro Arg Thr Arg Ala Gln Lys Val Glu		
2840	2845	2850
Val Lys Glu Glu Leu Leu Ala Val Gly Lys Leu Thr Gln Thr Ser		
2855	2860	2865
Gly Glu Thr Thr His Thr Asp Lys Glu Pro Val Gly Glu Gly Lys		
2870	2875	2880
Gly Thr Lys Ala Phe Lys Gln Pro Ala Lys Arg Lys Leu Asp Ala		
2885	2890	2895
Glu Asp Val Ile Gly Ser Arg Arg Gln Pro Arg Ala Pro Lys Glu		
2900	2905	2910
Lys Ala Gln Pro Leu Glu Asp Leu Ala Ser Phe Gln Glu Leu Ser		
2915	2920	2925
Gln Thr Pro Gly His Thr Glu Glu Leu Ala Asn Gly Ala Ala Asp		
2930	2935	2940
Ser Phe Thr Ser Ala Pro Lys Gln Thr Pro Asp Ser Gly Lys Pro		
2945	2950	2955
Leu Lys Ile Ser Arg Arg Val Leu Arg Ala Pro Lys Val Glu Pro		
2960	2965	2970
Val Gly Asp Val Val Ser Thr Arg Asp Pro Val Lys Ser Gln Ser		
2975	2980	2985
Lys Ser Asn Thr Ser Leu Pro Pro Leu Pro Phe Lys Arg Gly Gly		
2990	2995	3000
Gly Lys Asp Gly Ser Val Thr Gly Thr Lys Arg Leu Arg Cys Met		
3005	3010	3015
Pro Ala Pro Glu Glu Ile Val Glu Glu Leu Pro Ala Ser Lys Lys		
3020	3025	3030
Gln Arg Val Ala Pro Arg Ala Arg Gly Lys Ser Ser Glu Pro Val		
3035	3040	3045
Val Ile Met Lys Arg Ser Leu Arg Thr Ser Ala Lys Arg Ile Glu		
3050	3055	3060
Pro Ala Glu Glu Leu Asn Ser Asn Asp Met Lys Thr Asn Lys Glu		
3065	3070	3075
Glu His Lys Leu Gln Asp Ser Val Pro Glu Asn Lys Gly Ile Ser		
3080	3085	3090
Leu Arg Ser Arg Arg Gln Asn Lys Thr Glu Ala Glu Gln Gln Ile		
3095	3100	3105
Thr Glu Val Phe Val Leu Ala Glu Arg Ile Glu Ile Asn Arg Asn		
3110	3115	3120
Glu Lys Lys Pro Met Lys Thr Ser Pro Glu Met Asp Ile Gln Asn		
3125	3130	3135

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Pro Asp Asp Gly Ala Arg Lys Pro Ile Pro Arg Asp Lys Val Thr
3140 3145 3150
Glu Asn Lys Arg Cys Leu Arg Ser Ala Arg Gln Asn Glu Ser Ser
3155 3160 3165
Gln Pro Lys Val Ala Glu Glu Ser Gly Gly Gln Lys Ser Ala Lys
3170 3175 3180
Val Leu Met Gln Asn Gln Lys Gly Lys Gly Glu Ala Gly Asn Ser
3185 3190 3195
Asp Ser Met Cys Leu Arg Ser Arg Lys Thr Lys Ser Gln Pro Ala
3200 3205 3210
Ala Ser Thr Leu Glu Ser Lys Ser Val Gln Arg Val Thr Arg Ser
3215 3220 3225
Val Lys Arg Cys Ala Glu Asn Pro Lys Lys Ala Glu Asp Asn Val
3230 3235 3240
Cys Val Lys Lys Ile Arg Thr Arg Ser His Arg Asp Ser Glu Asp
3245 3250 3255
Ile

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<222> 3750-3915
<223> a, t, c, g, or other

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ctgccccgtg agtcccatag ttgctgcagg agtggagcca tgagctgcgt cctgggtggt 240
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ggccagggtgc agcctcaggc ctccaacatg gagtacatga cctgggatga cgaactggag 480
aagtctgctg cagcgtgggc cagtcagtgc atctgggagc acgggcccac cagtctgctg 540
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ccctggtgtc cagagagggt ctcggggcct atgtgcacgc actacacaca gatagtttg 720
gccaccacca acaagatcgg ttgtgctgtg aacacctgcc ggaagatgac tgtctgggga 780
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 <212> DNA

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<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 238349.4c

<400> 23

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<210> 24

<211> 1228

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 402917.3c

<400> 24

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<210> 25

<211> 1216

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 406330.1

<400> 25

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<210> 26
<211> 935
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2516070CB1

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<210> 27
<211> 267
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2516070CD1

<400> 27
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	20	25	30
Pro Trp Asp Arg Val Lys Asp Leu Ala Thr Val Tyr Val Asp Val			
	35	40	45
Leu Lys Asp Ser Gly Arg Asp Tyr Val Ser Gln Phe Glu Gly Ser			
	50	55	60
Ala Leu Gly Lys Gln Leu Asn Leu Lys Leu Leu Asp Asn Trp Asp			
	65	70	75
Ser Val Thr Ser Thr Phe Ser Lys Leu Arg Glu Gln Leu Gly Pro			
	80	85	90
Val Thr Gln Glu Phe Trp Asp Asn Leu Glu Lys Glu Thr Glu Gly			
	95	100	105
Leu Arg Gln Glu Met Ser Lys Asp Leu Glu Glu Val Lys Ala Lys			
	110	115	120
Val Gln Pro Tyr Leu Asp Asp Phe Gln Lys Lys Trp Gln Glu Glu			
	125	130	135
Met Glu Leu Tyr Arg Gln Lys Val Glu Pro Leu Arg Ala Glu Leu			
	140	145	150
Gln Glu Gly Ala Arg Gln Lys Leu His Glu Leu Gln Glu Lys Leu			
	155	160	165
Ser Pro Leu Gly Glu Glu Met Arg Asp Arg Ala Arg Ala His Val			
	170	175	180
Ala Arg Val Arg Thr His Leu Ala Pro Tyr Ser Asp Glu Leu Arg			
	185	190	195
Gln Arg Leu Ala Ala Arg Leu Glu Ala Leu Lys Glu Asn Gly Gly			
	200	205	210
Ala Arg Leu Ala Glu Tyr His Ala Lys Ala Thr Glu His Leu Ser			
	215	220	225
Thr Leu Ser Glu Lys Ala Lys Pro Ala Leu Glu Asp Leu Arg Gln			
	230	235	240
Gly Leu Leu Pro Val Leu Glu Ser Phe Lys Val Ser Phe Leu Ser			
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 <211> 1656
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> Incyte ID No: 167507CB1

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 cagtacgaaa ttctccgtgg ctaccagac ctgccagatt actccagccg agggccctgt 600
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<210> 29

<211> 427

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 167507CD1

<400> 29

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          20          25          30
Lys Asp Leu Phe Lys Ala Val Asp Ala Ala Leu Lys Lys Tyr Asn
          35          40          45
Ser Gln Asn Gln Ser Asn Asn Gln Phe Val Leu Tyr Arg Ile Thr
          50          55          60
Glu Ala Thr Lys Thr Val Gly Ser Asp Thr Phe Tyr Ser Phe Lys
          65          70          75
Tyr Glu Ile Lys Glu Gly Asp Cys Pro Val Gln Ser Gly Lys Thr
          80          85          90
Trp Gln Asp Cys Glu Tyr Lys Asp Ala Ala Lys Ala Ala Thr Gly
          95          100          105
Glu Cys Thr Ala Thr Val Gly Lys Arg Ser Ser Thr Lys Phe Ser
          110          115          120
Val Ala Thr Gln Thr Cys Gln Ile Thr Pro Ala Glu Gly Pro Val
          125          130          135
Val Thr Ala Gln Tyr Asp Cys Leu Gly Cys Val His Pro Ile Ser
          140          145          150
Thr Gln Ser Pro Asp Leu Glu Pro Ile Leu Arg His Gly Ile Gln
          155          160          165
Tyr Phe Asn Asn Asn Thr Gln His Ser Ser Leu Phe Met Leu Asn
          170          175          180
Glu Val Lys Arg Ala Gln Arg Gln Val Val Ala Gly Leu Asn Phe
          185          190          195
Arg Ile Thr Tyr Ser Ile Val Gln Thr Asn Cys Ser Lys Glu Asn
          200          205          210
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Phe Leu Phe Leu Thr Pro Asp Cys Lys Ser Leu Trp Asn Gly Asp
215 220 225
Thr Gly Glu Cys Thr Asp Asn Ala Tyr Ile Asp Ile Gln Leu Arg
230 235 240
Ile Ala Ser Phe Ser Gln Asn Cys Asp Ile Tyr Pro Gly Lys Asp
245 250 255
Phe Val Gln Pro Pro Thr Lys Ile Cys Val Gly Cys Pro Arg Asp
260 265 270
Ile Pro Thr Asn Ser Pro Glu Leu Glu Glu Thr Leu Thr His Thr
275 280 285
Ile Thr Lys Leu Asn Ala Glu Asn Asn Ala Thr Phe Tyr Phe Lys
290 295 300
Ile Asp Asn Val Lys Lys Ala Arg Val Gln Val Val Ala Gly Lys
305 310 315
Lys Tyr Phe Ile Asp Phe Val Ala Arg Glu Thr Thr Cys Ser Lys
320 325 330
Glu Ser Asn Glu Glu Leu Thr Glu Ser Cys Glu Thr Lys Lys Leu
335 340 345
Gly Gln Ser Leu Asp Cys Asn Ala Glu Val Tyr Val Val Pro Trp
350 355 360
Glu Lys Lys Ile Tyr Pro Thr Val Asn Cys Gln Pro Leu Gly Met
365 370 375
Ile Ser Leu Met Lys Arg Pro Pro Gly Phe Ser Pro Phe Arg Ser
380 385 390
Ser Arg Ile Gly Glu Ile Lys Glu Glu Thr Thr Ser His Leu Arg
395 400 405
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410 415 420
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425

<210> 30

<211> 617

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3860413CB1

<400> 30

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<210> 31

<211> 61

<212> PRT

<213> Homo sapiens

PA-0035 US

<220>

<221> misc_feature

<223> Incyte ID No: 3860413CD1

<400> 31

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20 25 30
Lys Ser Cys Cys Ser Cys Cys Pro Val Gly Cys Ala Lys Cys Ala
35 40 45
Gln Gly Cys Ile Cys Lys Gly Ala Ser Asp Lys Cys Ser Cys Cys
50 55 60
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<210> 32

<211> 1629

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3393861CB1

<400> 32

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ccgtgggtcat cgaccccttg acaagaagag agaagaggct ccagcctga ggccctgccc 180
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<210> 33

<211> 488

PA-0035 US

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3393861CD1

<400> 33

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				20					25					30
Asn	Asp	Asn	Glu	Glu	Gly	Phe	Phe	Ser	Ala	Arg	Gly	His	Arg	Pro
				35					40					45
Leu	Asp	Lys	Lys	Arg	Glu	Glu	Ala	Pro	Ser	Leu	Arg	Pro	Ala	Pro
				50					55					60
Pro	Pro	Ile	Ser	Gly	Gly	Gly	Tyr	Arg	Ala	Arg	Pro	Ala	Lys	Ala
				65					70					75
Ala	Ala	Thr	Gln	Lys	Lys	Val	Glu	Arg	Lys	Ala	Pro	Asp	Ala	Gly
				80					85					90
Gly	Cys	Leu	His	Ala	Asp	Pro	Asp	Leu	Gly	Val	Leu	Cys	Pro	Thr
				95					100					105
Gly	Cys	Gln	Leu	Gln	Glu	Ala	Leu	Leu	Gln	Gln	Glu	Arg	Pro	Ile
				110					115					120
Arg	Asn	Ser	Val	Asp	Glu	Leu	Asn	Asn	Val	Glu	Ala	Val	Ser	
				125					130					135
Gln	Thr	Ser	Ser	Ser	Ser	Phe	Gln	Tyr	Met	Tyr	Leu	Leu	Lys	Asp
				140					145					150
Leu	Trp	Gln	Lys	Arg	Gln	Lys	Gln	Val	Lys	Asp	Asn	Glu	Asn	Val
				155					160					165
Val	Asn	Glu	Tyr	Ser	Ser	Glu	Leu	Glu	Lys	His	Gln	Leu	Tyr	Ile
				170					175					180
Asp	Glu	Thr	Val	Asn	Ser	Asn	Ile	Pro	Thr	Asn	Leu	Arg	Val	Leu
				185					190					195
Arg	Ser	Ile	Leu	Glu	Asn	Leu	Arg	Ser	Lys	Ile	Gln	Lys	Leu	Glu
				200					205					210
Ser	Asp	Val	Ser	Ala	Gln	Met	Glu	Tyr	Cys	Arg	Thr	Pro	Cys	Thr
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Val	Ser	Cys	Asn	Ile	Pro	Val	Val	Ser	Gly	Lys	Glu	Cys	Glu	Glu
				230					235					240
Ile	Ile	Arg	Lys	Gly	Gly	Glu	Thr	Ser	Glu	Met	Tyr	Leu	Ile	Gln
				245					250					255
Pro	Asp	Ser	Ser	Val	Lys	Pro	Tyr	Arg	Val	Tyr	Cys	Asp	Met	Asn
				260					265					270
Thr	Glu	Asn	Gly	Gly	Trp	Thr	Val	Ile	Gln	Asn	Arg	Gln	Asp	Gly
				275					280					285
Ser	Phe	Asp	Phe	Gly	Arg	Lys	Trp	Asp	Pro	Tyr	Lys	Gln	Gly	Phe
				290					295					300
Gly	Asn	Val	Ala	Thr	Asn	Thr	Asp	Gly	Lys	Asn	Tyr	Cys	Gly	Leu
				305					310					315
Pro	Gly	Glu	Tyr	Trp	Leu	Gly	Asn	Asp	Lys	Ile	Ser	Gln	Leu	Thr
				320					325					330
Arg	Met	Gly	Pro	Thr	Glu	Leu	Leu	Ile	Glu	Met	Glu	Asp	Trp	Lys
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Gly	Asp	Lys	Val	Lys	Ala	His	Tyr	Gly	Gly	Phe	Thr	Val	Gln	Asn
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Glu Ala Asn Lys Tyr Gln Ile Ser Val Asn Lys Tyr Arg Gly Thr
365 370 375
Ala Gly Asn Ala Leu Met Asp Gly Ala Ser Gln Leu Met Gly Glu
380 385 390
Asn Arg Thr Met Thr Ile His Asn Gly Met Phe Phe Ser Thr Tyr
395 400 405
Asp Arg Asp Asn Asp Gly Trp Leu Thr Ser Asp Pro Arg Lys Gln
410 415 420
Cys Ser Lys Glu Asp Gly Gly Gly Trp Trp Tyr Asn Arg Cys His
425 430 435
Ala Ala Asn Pro Asn Gly Arg Tyr Tyr Trp Gly Gly Gln Tyr Thr
440 445 450
Trp Asp Met Ala Lys His Gly Thr Asp Asp Gly Val Val Trp Met
455 460 465
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470 475 480
Ile Arg Pro Phe Phe Pro Gln Gln
485

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<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2517374CB1

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<210> 35
<211> 201
<212> PRT
<213> Homo sapiens

<220>
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Leu Glu Ala Gln Ile Pro Leu Cys Ala Asn Leu Val Pro Val Pro
20 25 30
Ile Thr Asn Ala Thr Leu Asp Arg Ile Thr Gly Lys Trp Phe Tyr
35 40 45
Ile Ala Ser Ala Phe Arg Asn Glu Glu Tyr Asn Lys Ser Val Gln
50 55 60
Glu Ile Gln Ala Thr Phe Phe Tyr Phe Thr Pro Asn Lys Thr Glu
65 70 75
Asp Thr Ile Phe Leu Arg Glu Tyr Gln Thr Arg Gln Asp Gln Cys
80 85 90
Ile Tyr Asn Thr Thr Tyr Leu Asn Val Gln Arg Glu Asn Gly Thr
95 100 105
Ile Ser Arg Tyr Val Gly Gly Gln Glu His Phe Ala His Leu Leu
110 115 120
Ile Leu Arg Asp Thr Lys Thr Tyr Met Leu Ala Phe Asp Val Asn
125 130 135
Asp Glu Lys Asn Trp Gly Leu Ser Val Tyr Ala Asp Lys Pro Glu
140 145 150
Thr Thr Lys Glu Gln Leu Gly Glu Phe Tyr Glu Ala Leu Asp Cys
155 160 165
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170 175 180
Asp Lys Cys Glu Pro Leu Glu Lys Gln His Glu Lys Glu Arg Lys
185 190 195
Gln Glu Glu Gly Glu Ser
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<212> DNA
<213> Homo sapiens

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<220>

PA-0035 US

<221> unsure
<222> 33, 483, 500
<223> a, t, c, g, or other

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<211> 1003
<212> DNA
<213> Homo sapiens

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<211> 6868
<212> DNA
<213> Homo sapiens

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49



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Arg Lys Ser Ile	Tyr Arg Tyr Asp Leu	Ala Ser Gly Ala	Thr Glu
	770	775	780
Gln Leu Pro Leu	Thr Gly Leu Arg Ala	Ala Val Ala Leu	Asp Phe
	785	790	795
Asp Tyr Glu His	Asn Cys Leu Tyr Trp	Ser Asp Leu Ala	Leu Asp
	800	805	810
Val Ile Gln Arg	Leu Cys Leu Asn Gly	Ser Thr Gly Gln	Glu Val
	815	820	825
Ile Ile Asn Ser	Gly Leu Glu Thr Val	Glu Ala Leu Ala	Phe Glu
	830	835	840
Pro Leu Ser Gln	Leu Leu Tyr Trp Val	Asp Ala Gly Phe	Lys Lys
	845	850	855
Ile Glu Val Ala	Asn Pro Asp Gly Asp	Phe Arg Leu Thr	Ile Val
	860	865	870
Asn Ser Ser Val	Leu Asp Arg Pro Arg	Ala Leu Val Leu	Val Pro
	875	880	885
Gln Glu Gly Val	Met Phe Trp Thr Asp	Trp Gly Asp Leu	Lys Pro
	890	895	900
Gly Ile Tyr Arg	Ser Asn Met Asp Gly	Ser Ala Ala Tyr	His Leu
	905	910	915
Val Ser Glu Asp	Val Lys Trp Pro Asn	Gly Ile Ser Val	Asp Asp
	920	925	930
Gln Trp Ile Tyr	Trp Thr Asp Ala Tyr	Leu Glu Cys Ile	Glu Arg
	935	940	945
Ile Thr Phe Ser	Gly Gln Gln Arg Ser	Val Ile Leu Asp	Asn Leu
	950	955	960
Pro His Pro Tyr	Ala Ile Ala Val Phe	Lys Asn Glu Ile	Tyr Trp
	965	970	975
Asp Asp Trp Ser	Gln Leu Ser Ile Phe	Arg Ala Ser Lys	Tyr Ser
	980	985	990
Gly Ser Gln Met	Glu Ile Leu Ala Asn	Gln Leu Thr Gly	Leu Met
	995	1000	1005
Asp Met Lys Ile	Phe Tyr Lys Gly Lys	Asn Thr Gly Ser	Asn Ala
	1010	1015	1020
Cys Val Pro Arg	Pro Cys Ser Leu Leu	Cys Leu Pro Lys	Ala Asn
	1025	1030	1035
Asn Ser Arg Ser	Cys Arg Cys Pro Glu	Asp Val Ser Ser	Ser Val
	1040	1045	1050
Leu Pro Ser Gly	Asp Leu Met Cys Asp	Cys Pro Gln Gly	Tyr Gln
	1055	1060	1065
Leu Lys Asn Asn	Thr Cys Val Lys Glu	Glu Asn Thr Cys	Leu Arg
	1070	1075	1080
Asn Gln Tyr Arg	Cys Ser Asn Gly Asn	Cys Ile Asn Ser	Ile Trp
	1085	1090	1095
Trp Cys Asp Phe	Asp Asn Asp Cys Gly	Asp Met Ser Asp	Glu Arg
	1100	1105	1110
Asn Cys Pro Thr	Thr Ile Cys Asp Leu	Asp Thr Gln Phe	Arg Cys
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Gln Glu Ser Gly	Thr Cys Ile Pro Leu	Ser Tyr Lys Cys	Asp Leu
	1130	1135	1140
Glu Asp Asp Cys	Gly Asp Asn Ser Asp	Glu Ser His Cys	Glu Met
	1145	1150	1155
His Gln Cys Arg	Ser Asp Glu Tyr Asn	Cys Ser Ser Gly	Met Cys
	1160	1165	1170

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Ile	Arg	Ser	Ser	Trp	Val	Cys	Asp	Gly	Asp	Asn	Asp	Cys	Arg	Asp
				1175					1180					1185
Trp	Ser	Asp	Glu	Ala	Asn	Cys	Thr	Ala	Ile	Tyr	His	Thr	Cys	Glu
				1190					1195					1200
Ala	Ser	Asn	Phe	Gln	Cys	Arg	Asn	Gly	His	Cys	Ile	Pro	Gln	Arg
				1205					1210					1215
Trp	Ala	Cys	Asp	Gly	Asp	Thr	Asp	Cys	Gln	Asp	Gly	Ser	Asp	Glu
				1220					1225					1230
Asp	Pro	Val	Asn	Cys	Glu	Lys	Lys	Cys	Asn	Gly	Phe	Arg	Cys	Pro
				1235					1240					1245
Asn	Gly	Thr	Cys	Ile	Pro	Ser	Ser	Lys	His	Cys	Asp	Gly	Leu	Arg
				1250					1255					1260
Asp	Cys	Ser	Asp	Gly	Ser	Asp	Glu	Gln	His	Cys	Glu	Pro	Leu	Cys
				1265					1270					1275
Thr	His	Phe	Met	Asp	Phe	Val	Cys	Lys	Asn	Arg	Gln	Gln	Cys	Leu
				1280					1285					1290
Phe	His	Ser	Met	Val	Cys	Asp	Gly	Ile	Ile	Gln	Cys	Arg	Asp	Gly
				1295					1300					1305
Ser	Asp	Glu	Asp	Ala	Ala	Phe	Ala	Gly	Cys	Ser	Gln	Asp	Pro	Glu
				1310					1315					1320
Phe	His	Lys	Val	Cys	Asp	Glu	Phe	Gly	Phe	Gln	Cys	Gln	Asn	Gly
				1325					1330					1335
Val	Cys	Ile	Ser	Leu	Ile	Trp	Lys	Cys	Asp	Gly	Met	Asp	Asp	Cys
				1340					1345					1350
Gly	Asp	Tyr	Ser	Asp	Glu	Ala	Asn	Cys	Glu	Asn	Pro	Thr	Glu	Ala
				1355					1360					1365
Pro	Asn	Cys	Ser	Arg	Tyr	Phe	Gln	Phe	Arg	Cys	Glu	Asn	Gly	His
				1370					1375					1380
Cys	Ile	Pro	Asn	Arg	Trp	Lys	Cys	Asp	Arg	Glu	Asn	Asp	Cys	Gly
				1385					1390					1395
Asp	Trp	Ser	Asp	Glu	Lys	Asp	Cys	Gly	Asp	Ser	His	Ile	Leu	Pro
				1400					1405					1410
Phe	Ser	Thr	Pro	Gly	Pro	Ser	Thr	Cys	Leu	Pro	Asn	Tyr	Tyr	Arg
				1415					1420					1425
Cys	Ser	Ser	Gly	Thr	Cys	Val	Met	Asp	Thr	Trp	Val	Cys	Asp	Gly
				1430					1435					1440
Tyr	Arg	Asp	Cys	Ala	Asp	Gly	Ser	Asp	Glu	Glu	Ala	Cys	Pro	Leu
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Leu	Ala	Asn	Val	Thr	Ala	Ala	Ser	Thr	Pro	Thr	Gln	Leu	Gly	Arg
				1460					1465					1470
Cys	Asp	Arg	Phe	Glu	Phe	Glu	Cys	His	Gln	Pro	Lys	Thr	Cys	Ile
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Pro	Asn	Trp	Lys	Arg	Cys	Asp	Gly	His	Gln	Asp	Cys	Gln	Asp	Gly
				1490					1495					1500
Arg	Asp	Glu	Ala	Asn	Cys	Pro	Thr	His	Ser	Thr	Leu	Thr	Cys	Met
				1505					1510					1515
Ser	Arg	Glu	Phe	Gln	Cys	Glu	Asp	Gly	Glu	Ala	Cys	Ile	Val	Leu
				1520					1525					1530
Ser	Glu	Arg	Cys	Asp	Gly	Phe	Leu	Asp	Cys	Ser	Asp	Glu	Ser	Asp
				1535					1540					1545
Glu	Lys	Ala	Cys	Ser	Asp	Glu	Leu	Thr	Val	Tyr	Lys	Val	Gln	Asn
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Leu	Gln	Trp	Thr	Ala	Asp	Phe	Ser	Gly	Asp	Val	Thr	Leu	Thr	Trp
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Met	Arg	Pro	Lys	Lys	Met	Pro	Ser	Ala	Ser	Cys	Val	Tyr	Asn	Val
				1580					1585					1590

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Tyr	Tyr	Arg	Val	Val	Gly	Glu	Ser	Ile	Trp	Lys	Thr	Leu	Glu	Thr
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His	Ser	Asn	Lys	Thr	Asn	Thr	Val	Leu	Lys	Val	Leu	Lys	Pro	Asp
				1610					1615					1620
Thr	Thr	Tyr	Gln	Val	Lys	Val	Gln	Val	Gln	Cys	Leu	Ser	Lys	Ala
				1625					1630					1635
His	Asn	Thr	Asn	Asp	Phe	Val	Thr	Leu	Arg	Thr	Pro	Glu	Gly	Leu
				1640					1645					1650
Pro	Asp	Ala	Pro	Arg	Asn	Leu	Gln	Leu	Ser	Leu	Pro	Arg	Glu	Ala
				1655					1660					1665
Glu	Gly	Val	Ile	Val	Gly	His	Trp	Ala	Pro	Pro	Ile	His	Thr	His
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Gly	Leu	Ile	Arg	Glu	Tyr	Ile	Val	Glu	Tyr	Ser	Arg	Ser	Gly	Ser
				1685					1690					1695
Lys	Met	Trp	Ala	Ser	Gln	Arg	Ala	Ala	Ser	Asn	Phe	Thr	Glu	Ile
				1700					1705					1710
Lys	Asn	Leu	Leu	Val	Asn	Thr	Leu	Tyr	Thr	Val	Arg	Val	Ala	Ala
				1715					1720					1725
Val	Thr	Ser	Arg	Gly	Ile	Gly	Asn	Trp	Ser	Asp	Ser	Lys	Ser	Ile
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Thr	Thr	Ile	Lys	Gly	Lys	Val	Ile	Pro	Pro	Pro	Asp	Ile	His	Ile
				1745					1750					1755
Asp	Ser	Tyr	Gly	Glu	Asn	Tyr	Leu	Ser	Phe	Thr	Leu	Thr	Met	Glu
				1760					1765					1770
Ser	Asp	Ile	Lys	Val	Asn	Gly	Tyr	Val	Val	Asn	Leu	Phe	Trp	Ala
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Phe	Asp	Thr	His	Lys	Gln	Glu	Arg	Arg	Thr	Leu	Asn	Phe	Arg	Gly
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Ser	Ile	Leu	Ser	His	Lys	Val	Gly	Asn	Leu	Thr	Ala	His	Thr	Ser
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Tyr	Glu	Ile	Ser	Ala	Trp	Ala	Lys	Thr	Asp	Leu	Gly	Asp	Ser	Pro
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Leu	Ala	Phe	Glu	His	Val	Met	Thr	Arg	Gly	Val	Arg	Pro	Pro	Ala
				1835					1840					1845
Pro	Ser	Leu	Lys	Ala	Lys	Ala	Ile	Asn	Gln	Thr	Ala	Val	Glu	Cys
				1850					1855					1860
Thr	Trp	Thr	Gly	Pro	Arg	Asn	Val	Val	Tyr	Gly	Ile	Phe	Tyr	Ala
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Thr	Ser	Phe	Leu	Asp	Leu	Tyr	Arg	Asn	Pro	Lys	Ser	Leu	Thr	Thr
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Ser	Leu	His	Asn	Lys	Thr	Val	Ile	Val	Ser	Lys	Asp	Glu	Gln	Tyr
				1895					1900					1905
Leu	Phe	Leu	Val	Arg	Val	Val	Val	Pro	Tyr	Gln	Gly	Pro	Ser	Ser
				1910					1915					1920
Asp	Tyr	Val	Val	Val	Lys	Met	Ile	Pro	Asp	Ser	Arg	Leu	Pro	Pro
				1925					1930					1935
Arg	His	Leu	His	Val	Val	His	Thr	Gly	Lys	Thr	Ser	Val	Val	Ile
				1940					1945					1950
Lys	Trp	Glu	Ser	Pro	Tyr	Asp	Ser	Pro	Asp	Gln	Asp	Leu	Leu	Tyr
				1955					1960					1965
Ala	Ile	Ala	Val	Lys	Asp	Leu	Ile	Arg	Lys	Thr	Asp	Arg	Ser	Tyr
				1970					1975					1980
Lys	Val	Lys	Ser	Arg	Asn	Ser	Thr	Val	Glu	Tyr	Thr	Leu	Asn	Lys
				1985					1990					1995
Leu	Glu	Pro	Gly	Gly	Lys	Tyr	His	Ile	Ile	Val	Gln	Leu	Gly	Asn
				2000					2005					2010

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Met Ser Lys Asp Ser Ser Ile Lys Ile Thr Thr Val Ser Leu Ser
2015 2020 2025
Ala Pro Asp Ala Leu Lys Ile Ile Thr Glu Asn Asp His Val Leu
2030 2035 2040
Leu Phe Trp Lys Ser Leu Ala Leu Lys Glu Lys His Phe Asn Glu
2045 2050 2055
Ser Arg Gly Tyr Glu Ile His Met Phe Asp Ser Ala Met Asn Ile
2060 2065 2070
Thr Ala Tyr Leu Gly Asn Thr Thr Asp Asn Phe Phe Lys Ile Ser
2075 2080 2085
Asn Leu Lys Met Gly His Asn Tyr Thr Phe Thr Val Gln Ala Arg
2090 2095 2100
Cys Leu Phe Gly Asn Gln Ile Cys Gly Glu Pro Ala Ile Leu Leu
2105 2110 2115
Tyr Asp Glu Leu Gly Ser Gly Ala Asp Ala Ser Ala Thr Gln Ala
2120 2125 2130
Ala Arg Ser Thr Asp Val Ala Ala Val Val Val Pro Ile Leu Phe
2135 2140 2145
Leu Ile Leu Leu Ser Leu Gly Val Gly Phe Ala Ile Leu Tyr Thr
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Lys His Arg Arg Leu Gln Ser Ser Phe Thr Ala Phe Ala Asn Ser
2165 2170 2175
His Tyr Ser Ser Arg Leu Gly Ser Ala Ile Phe Ser Ser Gly Asp
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Ser Ser Lys Thr Phe Pro Thr Arg Lys Val Ala Lys Glu Gly Gly
35 40 45
Pro Lys Val Thr Ser Arg Asn Phe Glu Lys Ser Ile Thr Lys Leu
50 55 60
Gly Lys Lys Gly Val Lys Gln Phe Lys Asn Lys Gln Gln Gly Asp
65 70 75
Lys Ser Pro Lys Asn Lys Phe Gln Pro Ala Asn Lys Phe Asn Lys
80 85 90
Lys Arg Lys Phe Gln Pro Asp Gly Arg Ser Asp Glu Ser Ala Ala
95 100 105
Lys Lys Pro Lys Trp Asp Asp Phe Lys Lys Lys Lys Glu Leu
110 115 120
Lys Gln Ser Arg Gln Leu Ser Asp Lys Thr Asn Tyr Asp Ile Val
125 130 135
Val Arg Ala Lys Gln Met Trp Glu Ile Leu Arg Arg Lys Asp Cys
140 145 150
Asp Lys Glu Lys Arg Val Lys Leu Met Ser Asp Leu Gln Lys Leu
155 160 165
Ile Gln Gly Lys Ile Lys Thr Ile Ala Phe Ala His Asp Ser Thr
170 175 180
Arg Val Ile Gln Cys Tyr Ile Gln Tyr Gly Asn Glu Glu Gln Arg
185 190 195

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Lys	Gln	Ala	Phe	Glu	Glu	Leu	Arg	Asp	Asp	Leu	Val	Glu	Leu	Ser
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Lys	Ala	Lys	Tyr	Ser	Arg	Asn	Ile	Val	Lys	Lys	Phe	Leu	Met	Tyr
				215					220					225
Gly	Ser	Lys	Pro	Gln	Ile	Ala	Glu	Ile	Ile	Arg	Ser	Phe	Lys	Gly
				230					235					240
His	Val	Arg	Lys	Met	Leu	Arg	His	Ala	Glu	Ala	Ser	Ala	Ile	Val
				245					250					255
Glu	Tyr	Ala	Tyr	Asn	Asp	Lys	Ala	Ile	Leu	Glu	Gln	Arg	Asn	Met
				260					265					270
Leu	Thr	Glu	Glu	Leu	Tyr	Gly	Asn	Thr	Phe	Gln	Leu	Tyr	Lys	Ser
				275					280					285
Ala	Asp	His	Pro	Thr	Leu	Asp	Lys	Val	Leu	Glu	Val	Gln	Pro	Glu
				290					295					300
Lys	Leu	Glu	Leu	Ile	Met	Asp	Glu	Met	Lys	Gln	Ile	Leu	Thr	Pro
				305					310					315
Met	Ala	Gln	Lys	Glu	Ala	Val	Ile	Lys	His	Ser	Leu	Val	His	Lys
				320					325					330
Val	Phe	Leu	Asp	Phe	Phe	Thr	Tyr	Ala	Pro	Pro	Lys	Leu	Arg	Ser
				335					340					345
Glu	Met	Ile	Glu	Ala	Ile	Arg	Glu	Ala	Val	Val	Tyr	Leu	Ala	His
				350					355					360
Thr	His	Asp	Gly	Ala	Arg	Val	Ala	Met	His	Cys	Leu	Trp	His	Gly
				365					370					375
Thr	Pro	Lys	Asp	Arg	Lys	Val	Ile	Val	Lys	Thr	Met	Lys	Thr	Tyr
				380					385					390
Val	Glu	Lys	Val	Ala	Asn	Gly	Gln	Tyr	Ser	His	Leu	Val	Leu	Leu
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Ala	Ala	Phe	Asp	Cys	Ile	Asp	Asp	Thr	Lys	Leu	Val	Lys	Gln	Ile
				410					415					420
Ile	Ile	Ser	Glu	Ile	Ile	Ser	Ser	Leu	Pro	Ser	Ile	Val	Asn	Asp
				425					430					435
Lys	Tyr	Gly	Arg	Lys	Val	Leu	Leu	Tyr	Leu	Leu	Ser	Pro	Arg	Asp
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Pro	Ala	His	Thr	Val	Arg	Glu	Ile	Ile	Glu	Val	Leu	Gln	Lys	Gly
				455					460					465
Asp	Gly	Asn	Ala	His	Ser	Lys	Lys	Asp	Thr	Glu	Val	Arg	Arg	Arg
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Glu	Leu	Leu	Glu	Ser	Ile	Ser	Pro	Ala	Leu	Leu	Ser	Tyr	Leu	Gln
				485					490					495
Glu	His	Ala	Gln	Glu	Val	Val	Leu	Asp	Lys	Ser	Ala	Cys	Val	Leu
				500					505					510
Val	Ser	Asp	Ile	Leu	Gly	Ser	Ala	Thr	Gly	Asp	Val	Gln	Pro	Thr
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Met	Asn	Ala	Ile	Ala	Ser	Leu	Ala	Ala	Thr	Gly	Leu	His	Pro	Gly
				530					535					540
Gly	Lys	Asp	Gly	Glu	Leu	His	Ile	Ala	Glu	His	Pro	Ala	Gly	His
				545					550					555
Leu	Val	Leu	Lys	Trp	Leu	Ile	Glu	Gln	Asp	Lys	Lys	Met	Lys	Glu
				560					565					570
Asn	Gly	Arg	Glu	Gly	Cys	Phe	Ala	Lys	Thr	Leu	Val	Glu	His	Val
				575					580					585
Gly	Met	Lys	Asn	Leu	Lys	Ser	Trp	Ala	Ser	Val	Asn	Arg	Gly	Ala
				590					595					600
Ile	Ile	Leu	Ser	Ser	Leu	Leu	Gln	Ser	Cys	Asp	Leu	Glu	Val	Ala
				605					610					615

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Asn Lys Val Lys Ala Ala Leu Lys Ser Leu Ile Pro Thr Leu Glu
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Lys Thr Lys Ser Thr Ser Lys Gly Ile Glu Ile Leu Leu Glu Lys
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Leu Ser Thr

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gtctgcccag ctggttgcctc tgagatcaca gtcttcttat tcttaagtga cgctgcggta 180
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aagcactgca ccgatcagat atcttttaag aaacgactct cattgaaaaa gtcctgggtg 300
aaatagttaa aaaatgtggt gtgtgacatg taaaaatgct caacctggtt tccaaagtct 360
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atcatttgcc ctgc 434

<210> 44
<211> 259
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 017958.1

<400> 44
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gggaaaaata ttactacat attaagcaca cacaaaaata atgcatgcat catgatttac 180
gtatgtttct aggatgttat atgactagta gagtacatac tgaaatgtcg gttgggttatc 240
tctggctgct gccattatg 259

<210> 45
<211> 1308
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 985556.1

<220>
<221> unsure
<222> 905
<223> a, t, c, g, or other

<400> 45

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ccttgccctc tgggagggtc ctccaaacat agcttccagg aggtgggagg agcagttact 180
gtcagcaggt gtcagccagg tgtcagcttc tcttggggat ctctagatgt ctgcttgtga 240
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<210> 46

<211> 2523

<212> DNA

<213> Homo sapiens

<220>

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<223> Incyte ID No: 476301CB1

<400> 46

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caggtgttgc aagatatggc cagccgcttg cgaatccatt ccatcagggc cacatgctcc 180
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ttctacatca tgaggtagaa gcagtcagat ccagagaatc cggacaacga ccgatttgtc 300
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tgctcatga gtgatggcga gtctcagaa ggctctgtct gggaggcaat ggctttgtct 480
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gcttctcagg tgaagcacia gccactgct gtgggtggcca agaccttcaa gggccggggc 720
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cagatggccc tggaggatat agccatgttc cgaaccattc ccaagtgcac gatcttctac 1320
ccaactgatg ccgtctccac ggagcatgct gttgctctgg cagccaatgc caaggggatg 1380

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aaa 2523

<210> 47
<211> 596
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 476301CD1

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35 40 45
His Pro Thr Ser Cys Ser Ser Ser Ser Glu Ile Met Ser Val Leu
50 55 60
Phe Phe Tyr Ile Met Arg Tyr Lys Gln Ser Asp Pro Glu Asn Pro
65 70 75
Asp Asn Asp Arg Phe Val Leu Ala Lys Arg Leu Ser Phe Val Asp
80 85 90
Val Ala Thr Gly Trp Leu Gly Gln Gly Leu Gly Val Ala Cys Gly
95 100 105
Met Ala Tyr Thr Gly Lys Tyr Phe Asp Arg Ala Ser Tyr Arg Val
110 115 120
Phe Cys Leu Met Ser Asp Gly Glu Ser Ser Glu Gly Ser Val Trp
125 130 135
Glu Ala Met Ala Phe Ala Ser Tyr Tyr Ser Leu Asp Asn Leu Val
140 145 150
Ala Ile Phe Asp Val Asn Arg Leu Gly His Ser Gly Ala Leu Pro
155 160 165
Ala Glu His Cys Ile Asn Ile Tyr Gln Arg Arg Cys Glu Ala Phe
170 175 180
Gly Trp Asn Thr Tyr Val Val Asp Gly Arg Asp Val Glu Ala Leu

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	185		190		195
Cys Gln Val Phe	Trp Gln Ala Ser Gln	Val Lys His Lys Pro	Thr		
	200		205		210
Ala Val Val Ala	Lys Thr Phe Lys Gly	Arg Gly Thr Pro Ser	Ile		
	215		220		225
Glu Asp Ala Glu	Ser Trp His Ala Lys	Pro Met Pro Arg Glu	Arg		
	230		235		240
Ala Asp Ala Ile	Ile Lys Leu Ile Glu	Ser Gln Ile Gln Thr	Ser		
	245		250		255
Arg Asn Leu Asp	Pro Gln Pro Pro Ile	Glu Asp Ser Pro Glu	Val		
	260		265		270
Asn Ile Thr Asp	Val Arg Met Thr Ser	Pro Pro Asp Tyr Arg	Val		
	275		280		285
Gly Asp Lys Ile	Ala Thr Arg Lys Ala	Cys Gly Leu Ala Leu	Ala		
	290		295		300
Lys Leu Gly Tyr	Ala Asn Asn Arg Val	Val Val Leu Asp Gly	Asp		
	305		310		315
Thr Arg Tyr Ser	Thr Phe Ser Glu Ile	Phe Asn Lys Glu Tyr	Pro		
	320		325		330
Glu Arg Phe Ile	Glu Cys Phe Met Ala	Glu Gln Asn Met Val	Ser		
	335		340		345
Val Ala Leu Gly	Cys Ala Ser Arg Gly	Arg Thr Ile Ala Phe	Ala		
	350		355		360
Ser Thr Phe Ala	Ala Phe Leu Thr Arg	Ala Phe Asp His Ile	Arg		
	365		370		375
Ile Gly Gly Leu	Ala Glu Ser Asn Ile	Asn Ile Ile Gly Ser	His		
	380		385		390
Cys Gly Val Ser	Val Gly Asp Asp Gly	Ala Ser Gln Met Ala	Leu		
	395		400		405
Glu Asp Ile Ala	Met Phe Arg Thr Ile	Pro Lys Cys Thr Ile	Phe		
	410		415		420
Tyr Pro Thr Asp	Ala Val Ser Thr Glu	His Ala Val Ala Leu	Ala		
	425		430		435
Ala Asn Ala Lys	Gly Met Cys Phe Ile	Arg Thr Thr Arg Pro	Glu		
	440		445		450
Thr Met Val Ile	Tyr Thr Pro Gln Glu	Arg Phe Glu Ile Gly	Gln		
	455		460		465
Ala Lys Val Leu	Arg His Cys Val Ser	Asp Lys Val Thr Val	Ile		
	470		475		480
Gly Ala Gly Ile	Thr Val Tyr Glu Ala	Leu Ala Ala Ala Asp	Glu		
	485		490		495
Leu Ser Lys Gln	Asp Ile Phe Ile Arg	Val Ile Asp Leu Phe	Thr		
	500		505		510
Ile Lys Pro Leu	Asp Val Ala Thr Ile	Val Ser Ser Ala Lys	Ala		
	515		520		525
Thr Glu Gly Arg	Ile Ile Thr Val Glu	Asp His Tyr Pro Gln	Gly		
	530		535		540
Gly Ile Gly Glu	Ala Val Cys Ala Ala	Val Ser Met Asp Pro	Asp		
	545		550		555
Ile Gln Val His	Ser Leu Ala Val Ser	Gly Val Pro Gln Ser	Gly		
	560		565		570
Lys Ser Glu Glu	Leu Leu Asp Met Tyr	Gly Ile Ser Ala Arg	His		
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<210> 48

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<211> 2492

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 996427.2

<400> 48

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tttttagact gactcttata ataagttttg cttttataaa ttctgagtta aataaaatga 180
ccaattgtag tcatgaccag gcatgaagat tccatccctg aggggtaaaag cagtagacta 240
ctgccagctc cacttcagtt caggccacat caccctcagt cctgaaggag accccttctt 300
agcctccagt tgttgcactg caactctgcc tcgaattggg ctatgcccgga gtatcctcag 360
agtttagatg ggcagtgatg ttttgcttaa gtagaagaat gtagtgtgtc cactgagaag 420
gataaccaga aaaggttaga tatatttgtc agttcacttt tactcaaatt tccattgagt 480
tacttaagaa atcagttctt caaagtggat atgtacatta cagactctgt cacctacaca 540
tacacaggaa tcttttgaag aataagatct gggtactact ggagtaggat gtaggaaggt 600
taatgttgta tagatgatgt tttaaagata gagtttcagc atatatgtta ataacttttt 660
ctcctatttt ctcaagggtt tatgacttac ctagtggagc ctttattttac agaatgggcc 720
aggttttcca atacaaggct atcccagaca atgcttggaac acgtggggct gaataaagcc 780
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aggagtaaca aaggaagttt tgatatgtgc cagcactttt tcaaagcatc taatcttcaa 1200
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aaagtgcatt gttttcttgt cctccctttt gatgaaacgt taccctttga cgggcctttt 2160
gatgtgaaca gatgttttct aggacaaact ataaggacta attttaact tcaaacttcc 2220
cacttttgta atttgtttta aattgtttta tgtatagtaa gcacaactgt aatctagttt 2280
taagagaaac cgggtgctttc ttttagttca tttgtatttc ccttgttact gtaaaagact 2340
gtttattaat tgtttacagt ttgttgcaac agccattttc ttgggagaaa gcttgagtgt 2400
aaagccattt gtaaaaggct ttgccatact cattttaata tgtgcctgtt gctgttaact 2460
tttgatgaat aaaaacctat cttttcataa aa 2492
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<210> 49

<211> 902

<212> DNA

<213> Homo sapiens

PA-0035 US

<220>

<221> misc_feature

<223> Incyte ID No: 2989375CB1

<400> 49

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ttcgagttta accaaatgag atcatctctg tcatgtgcct cacgcctcac agggactcca 180
tgtgtgaaga ttcccccttc actcaccaga tcatctccat ggcaacagct tgcagcctgc 240
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ggtaaattcca cagattaaga atatgctgtc aggagtcagg cagccaaggt cagaagccag 360
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tgactagcgc catttggaac atgttgaaac tgaagtagag atgagagatc ttacgtctgc 480
ctaccagtg agatacgagg aagggtcaagg gaaaaaaaaat tccaagctct tctttatctg 540
ctataggaaa tgaacattca attttttgca tgcaacgaca agagggtcaag gacccagaa 600
gccagccgc tacttccaag ttgagagccc ctggtcatac cctccagttg agctcagatt 660
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agataccttc ctcttggcct cccatgggca tccataagaa acttacttga agcaagaagc 780
ccagtatagg tgtctgggca gttggacatt tcctctagcc agatctgtcc gaatagagcc 840
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tc 902
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<210> 50

<211> 50

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2989375CD1

<400> 50

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Phe Thr His Gln Ile Ile Ser Met Ala Thr Ala Cys Ser Leu Leu
              20              25              30
Leu Glu Cys Phe Val Leu Ala Ala Ser Leu Leu Val Cys Val Trp
              35              40              45
Ser Glu Trp Arg Arg
              50
```

<210> 51

<211> 618

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 236359.2

<220>

<221> unsure

<222> 44, 57

<223> a, t, c, g, or other

<400> 51

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aagaattcgt caaaggacac attttgtcat tagcacttac aganagcaac tacagcnagc 60
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PA-0035 US

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cctagatttt cgaaactctt cagctacttg ccccttttta tctgaaacca tcataccttc 120
tgaaagaaaa aagcatatct tcattgacat aacagaagtg agatggccca gtcttgatac 180
agatgggtacc atgatataata tggagagtgg cattgtgaag ataacatctt tagatgggtca 240
tgcatacctc tgcctgcccc gatctcagca tgaatttaca gtacattttt tgtgttaaagt 300
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taaaactagt gaaaaaactg gcaaaatctg tatacgtgga aatttaccag gacagagact 420
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gatgagttgt gtaaattggaa ctgaagggag ggaagagctg ccttcgcctg gtacaaagca 540
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gaaatatcct ttgtcttt 618
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<210> 52
<211> 527
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 011112.1c

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atatgattca ttgtctaacc ccatacaagg gttacatatt ttaaataaga cgtcatttct 180
cctcttcaact ccagcatctc ctcccttcaa ggcatttttc accctcttga aattaatacg 240
ctctatttgc tcttttcacc taaaaaaagg tcaatcgctg ctctgagaaa caacagttag 300
atgcaaaata agggtaaaat ggcattgaaa tgaatccctt tgaaaaagta agcgggtttgc 360
tttatcagtt aatgggtctca tcagcgcctc agtttctctt tctgcaaaaa tcagtctgtt 420
gaactagagc atatcaaagg ttccttctag tgttttgatt ctaggacctc taaattcatg 480
caggctgcat aatgcaaatt taacctgatt aaagccttat ttctcat 527
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<210> 53
<211> 899
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 198268.1

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ctgtattctc tttaacaacc cagttgcccc acccagaaac tgggagtcac gcagacctcc 180
tttctctctt actccacac aatgagccat gaagtccagt ctttctatct taacatcact 240
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attaccctt tccctccttc acactatctg cctggctaata tcttatttat ccttagttca 660
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cctagggcac acccccttta tttccctcat agaaacagcc ttctgtaaat tgttccatga 780
caacctgtat ttcaatttgt aagaaatttg catgtactgt gagctcccca acgtcaggag 840
actgacctt ttgatatcat tgctaagcct cattaatatga atgaatgaaa atgttaaaa 899
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<210> 54
<211> 3575
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 978740.3

<400> 54
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<213> Homo sapiens

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<221> unsure
<222> 574-662, 749-830
<223> a, t, c, g, or other

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<213> Homo sapiens

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<220>

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<222> 5, 45, 49, 127, 133, 159

<223> a, t, c, g, or other

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<211> 2660

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 2797839CB1

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<210> 58
 <211> 812
 <212> PRT
 <213> Homo sapiens

<220>
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 <223> Incyte ID No: 2797839CD1

<400> 58

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Phe	Leu	Pro	Ala	Val	Ser	Asp	Glu	Asn	Ser	Lys	Arg	Leu	Ser	Ser	
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Ala	Arg	Lys	Gln	Lys	Ala	Arg	Glu	Ala	Ala	Ala	Gly	Ile	Gln	Trp	
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Ser	Glu	Glu	Glu	Thr	Glu	Asp	Glu	Glu	Glu	Glu	Lys	Glu	Val	Thr	
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Glu Met Glu Gln	230	235	240
Asp Ile Val Gly Ile	245	250	255
Gln Arg Glu Glu	260	265	270
Lys Lys Asp Leu	275	280	285
Gly Lys Leu Met	290	295	300
Leu Glu Ala Asn	305	310	315
Thr Leu Lys Thr	320	325	330
Arg Gly Val Asn	335	340	345
Leu Val Val Tyr	350	355	360
Tyr Leu Ala Gly	365	370	375
Pro Val Met Ala	380	385	390
Met Cys Cys Ala	395	400	405
Met Lys Asn Thr	410	415	420
Arg Leu Lys Ser	425	430	435
Asn Thr Ile Ile	440	445	450
Val Gly Gly Phe	455	460	465
Thr Gly Val Ile	470	475	480
Glu Lys Asp Ile	485	490	495
Leu Ser Ala Ile	500	505	510
Tyr Leu Val Tyr	515	520	525
Trp Val Val Asp	530	535	540
Pro Thr Gly Leu	545	550	555
Glu Arg Arg Phe	560	565	570
Pro His Thr His	575	580	585
Lys Phe Ser Asn	590	595	600
Thr Ala Thr Pro	605	610	615
Ser Glu Asn Ser			

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Leu Ser Thr Val	Pro Ser Val Thr Lys	Thr Gln Ala Ser Ser	Ser		
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Phe Gln Asp Ser	Ser Gln Pro Ala Gly	Lys Ala Glu Gly Ile	Arg		
	680		685		690
Glu Pro Lys Val	Thr Gly Lys Leu Lys	Gln Arg Ser Pro Lys	Leu		
	695		700		705
Gln Ser Ser Lys	Lys Val Ala Phe Leu	Arg Gln Asn Ala Pro	Pro		
	710		715		720
Lys Gly Thr Asp	Thr Gln Thr Pro Ala	Val Leu Ser Pro Ser	Lys		
	725		730		735
Thr Gln Ala Thr	Leu Lys Pro Lys Asp	His His Gln Pro Leu	Gly		
	740		745		750
Arg Ala Lys Gly	Val Glu Lys Gln Gln	Leu Pro Glu Gln Pro	Phe		
	755		760		765
Glu Lys Ala Ala	Phe Gln Lys Gln Asn	Asp Thr Pro Lys Gly	Pro		
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Gln Pro Pro Thr	Val Ser Pro Ile Arg	Ser Ser Arg Pro Pro	Pro		
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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<223> Incyte ID No: 348072.5

<220>
<221> unsure
<222> 2851
<223> a, t, c, g, or other

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<210> 61

<211> 1952

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 085596CB1

<400> 61

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<210> 62

<211> 525

<212> PRT

<213> Homo sapiens

<220>

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<221> misc_feature

<223> Incyte ID No: 085596CD1

<400> 62

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				20					25					30
Ala	Glu	Lys	Ala	Leu	Asp	Leu	Ile	Asn	Lys	Arg	Arg	Arg	Asp	Gly
				35					40					45
Tyr	Leu	Phe	Gln	Leu	Leu	Arg	Ile	Ala	Asp	Ala	His	Leu	Asp	Arg
				50					55					60
Val	Glu	Asn	Thr	Thr	Val	Tyr	Tyr	Leu	Val	Leu	Asp	Val	Gln	Glu
				65					70					75
Ser	Asp	Cys	Ser	Val	Leu	Ser	Arg	Lys	Tyr	Trp	Asn	Asp	Cys	Glu
				80					85					90
Pro	Pro	Asp	Ser	Arg	Arg	Pro	Ser	Glu	Ile	Val	Ile	Gly	Gln	Cys
				95					100					105
Lys	Val	Ile	Ala	Thr	Arg	His	Ser	His	Glu	Ser	Gln	Asp	Leu	Arg
				110					115					120
Val	Ile	Asp	Phe	Asn	Cys	Thr	Thr	Ser	Ser	Val	Ser	Ser	Ala	Leu
				125					130					135
Ala	Asn	Thr	Lys	Asp	Ser	Pro	Val	Leu	Ile	Asp	Phe	Phe	Glu	Asp
				140					145					150
Thr	Glu	Arg	Tyr	Arg	Lys	Gln	Ala	Asn	Lys	Ala	Leu	Glu	Lys	Tyr
				155					160					165
Lys	Glu	Glu	Asn	Asp	Asp	Phe	Ala	Ser	Phe	Arg	Val	Asp	Arg	Thr
				170					175					180
Glu	Arg	Val	Ala	Arg	Val	Arg	Gly	Gly	Glu	Gly	Thr	Gly	Tyr	Phe
				185					190					195
Val	Asp	Phe	Ser	Val	Arg	Asn	Cys	Pro	Arg	His	His	Phe	Pro	Arg
				200					205					210
His	Pro	Asn	Val	Phe	Gly	Phe	Cys	Arg	Ala	Asp	Leu	Phe	Tyr	Asp
				215					220					225
Val	Glu	Ala	Leu	Asp	Leu	Glu	Ser	Pro	Lys	Asn	Leu	Val	Ile	Asn
				230					235					240
Cys	Glu	Val	Phe	Asp	Pro	Gln	Glu	His	Glu	Asn	Ile	Asn	Gly	Val
				245					250					255
Pro	Pro	His	Leu	Gly	His	Pro	Phe	His	Trp	Gly	Gly	His	Glu	Arg
				260					265					270
Ser	Ser	Thr	Thr	Lys	Pro	Pro	Phe	Lys	Pro	His	Gly	Ser	Arg	Asp
				275					280					285
His	His	His	Pro	His	Lys	Pro	His	Glu	His	Gly	Pro	Pro	Pro	Pro
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Pro	Asp	Glu	Arg	Asp	His	Ser	His	Gly	Pro	Pro	Leu	Pro	Gln	Gly
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Pro	Pro	Pro	Leu	Leu	Pro	Met	Ser	Cys	Ser	Ser	Cys	Gln	His	Ala
				320					325					330
Thr	Phe	Gly	Thr	Asn	Gly	Ala	Gln	Arg	Arg	Ser	His	Asn	Asn	Asn
				335					340					345
Ser	Ser	Asp	Leu	His	Pro	His	Lys	His	His	Ser	His	Glu	Gln	His
				350					355					360
Pro	His	Gly	His	His	Pro	His	Ala	His	His	Pro	His	Glu	His	Asp
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<211> 1635
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<213> Homo sapiens

<220>
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<223> Incyte ID No: 103917CB1
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1635

<210> 64
<211> 217
<212> PRT
<213> Homo sapiens

<220>
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35 40 45
Thr Tyr Ser Ser Ala Gly Asp Ser Val Tyr Thr Tyr Phe Ser Ala
50 55 60
Val Ala Gly Gln Asp Gly Glu Val Asp Ala Glu Glu Leu Gln Arg
65 70 75
Cys Leu Thr Gln Ser Gly Ile Asn Gly Thr Tyr Ser Pro Phe Ser
80 85 90
Leu Glu Thr Cys Arg Ile Met Ile Ala Met Leu Asp Arg Asp His
95 100 105
Thr Gly Lys Met Gly Phe Asn Ala Phe Lys Glu Leu Trp Ala Ala
110 115 120
Leu Asn Ala Trp Lys Glu Asn Phe Met Thr Val Asp Gln Asp Gly
125 130 135
Ser Gly Thr Val Glu His His Glu Leu Arg Gln Ala Ile Gly Leu
140 145 150
Met Gly Tyr Arg Leu Ser Pro Gln Thr Leu Thr Thr Ile Val Lys
155 160 165
Arg Tyr Ser Lys Asn Gly Arg Ile Phe Phe Asp Asp Tyr Val Ala
170 175 180
Cys Cys Val Lys Leu Arg Ala Leu Thr Asp Phe Phe Arg Lys Arg
185 190 195
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Leu Gln Gly Thr Met Ala Ile
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<210> 65
<211> 2977
<212> DNA
<213> Homo sapiens

<220>
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<210> 66
 <211> 456
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 3603037CD1

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<400> 66

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				20					25					30
Leu	Ala	Ala	Thr	Ser	Val	Thr	Ile	Phe	Pro	Asn	Ala	Glu	Leu	Gly
				35					40					45
Gly	Pro	Phe	Asp	Gln	Met	Asn	Gly	Val	Ala	Gly	Asp	Gly	Met	Ile
				50					55					60
Asn	Ile	Asp	Met	Thr	Gly	Glu	Lys	Arg	Ser	Leu	Asp	Leu	Pro	Tyr
				65					70					75
Pro	Ser	Ser	Phe	Ala	Pro	Val	Ser	Ala	Pro	Arg	Asn	Gln	Thr	Phe
				80					85					90
Thr	Tyr	Met	Gly	Lys	Phe	Ser	Ile	Asp	Pro	Gln	Tyr	Pro	Gly	Ala
				95					100					105
Ser	Cys	Tyr	Pro	Glu	Gly	Ile	Ile	Asn	Ile	Val	Ser	Ala	Gly	Ile
				110					115					120
Leu	Gln	Gly	Val	Thr	Ser	Pro	Ala	Ser	Thr	Thr	Ala	Ser	Ser	Ser
				125					130					135
Val	Thr	Ser	Ala	Ser	Pro	Asn	Pro	Leu	Ala	Thr	Gly	Pro	Leu	Gly
				140					145					150
Val	Cys	Thr	Met	Ser	Gln	Thr	Gln	Pro	Asp	Leu	Asp	His	Leu	Tyr
				155					160					165
Ser	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Tyr	Ser	Gly	Cys	Ala	Gly	Asp
				170					175					180
Leu	Tyr	Gln	Asp	Pro	Ser	Ala	Phe	Leu	Ser	Ala	Ala	Thr	Thr	Ser
				185					190					195
Thr	Ser	Ser	Ser	Leu	Ala	Tyr	Pro	Pro	Pro	Pro	Ser	Tyr	Pro	Ser
				200					205					210
Pro	Lys	Pro	Ala	Thr	Asp	Pro	Gly	Leu	Phe	Pro	Met	Ile	Pro	Asp
				215					220					225
Tyr	Pro	Gly	Phe	Phe	Pro	Ser	Gln	Cys	Gln	Arg	Asp	Leu	His	Gly
				230					235					240
Thr	Ala	Gly	Pro	Asp	Arg	Lys	Pro	Phe	Pro	Cys	Pro	Leu	Asp	Thr
				245					250					255
Leu	Arg	Val	Pro	Pro	Pro	Leu	Thr	Pro	Leu	Ser	Thr	Ile	Arg	Asn
				260					265					270
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				275					280					285
Ser	Gly	Gly	Ser	Glu	Gly	Pro	Arg	Leu	Pro	Gly	Ser	Ser	Ser	Ala
				290					295					300
Ala	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Tyr	Asn	Pro	His	His	Leu
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				320					325					330
Ser	Lys	Thr	Pro	Val	His	Glu	Arg	Pro	Tyr	Pro	Cys	Pro	Ala	Glu
				335					340					345
Gly	Cys	Asp	Arg	Arg	Phe	Ser	Arg	Ser	Asp	Glu	Leu	Thr	Arg	His
				350					355					360
Ile	Arg	Ile	His	Thr	Gly	His	Lys	Pro	Phe	Gln	Cys	Arg	Ile	Cys
				365					370					375
Met	Arg	Asn	Phe	Ser	Arg	Ser	Asp	His	Leu	Thr	Thr	His	Ile	Arg
				380					385					390
Thr	His	Thr	Gly	Glu	Lys	Pro	Phe	Ala	Cys	Asp	Tyr	Cys	Gly	Arg
				395					400					405
Lys	Phe	Ala	Arg	Ser	Asp	Glu	Arg	Lys	Arg	His	Thr	Lys	Ile	His

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410	415	420
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Gly Tyr Pro Val Gln Gln		
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<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 088564CB1

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<211> 96
<212> PRT
<213> Homo sapiens

<220>
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20 25 30
Asp Cys Cys Leu Gly Tyr Thr Asp Arg Ile Leu His Pro Lys Phe
35 40 45
Ile Val Gly Phe Thr Arg Gln Leu Ala Asn Glu Gly Cys Asp Ile
50 55 60
Asn Ala Ile Ile Phe His Thr Lys Lys Leu Ser Val Cys Ala
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Asn Pro Lys Gln Thr Trp Val Lys Tyr Ile Val Arg Leu Leu Ser
80 85 90
Lys Lys Val Lys Asn Met
95

PA-0035 US

<210> 69
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<220>
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<223> a, t, c, g, or other

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81

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<212> PRT

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<221> misc_feature

<223> Incyte ID No: 701484CD1

<400> 73

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35 40 45
Phe Thr Asp Thr Glu Arg Leu Ile Gly Asp Ala Ala Lys Asn Gln
50 55 60
Val Ala Met Asn Pro Gln Asn Thr Val Phe Asp Ala Lys Arg Leu
65 70 75
Ile Gly Arg Lys Phe Asn Asp Pro Val Val Gln Ala Asp Met Lys
80 85 90
Leu Trp Pro Phe Gln Val Ile Asn Glu Gly Gly Lys Pro Lys Val
95 100 105
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125 130 135
Phe Leu Gly His Pro Val Thr Asn Ala Val Ile Thr Val Pro Ala
140 145 150
Tyr Phe Asn Asp Ser Gln Arg Gln Ala Thr Lys Asp Ala Gly Val
155 160 165
Ile Ala Gly Leu Asn Val Leu Arg Ile Ile Asn Glu Pro Thr Ala
170 175 180
Ala Ala Ile Ala Tyr Gly Leu Asp Lys Gly Gly Gln Gly Glu Arg
185 190 195
His Val Leu Ile Phe Asp Leu Gly Gly Gly Thr Phe Asp Val Ser
200 205 210

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<222> 3786, 3788, 3791
<223> a, t, c, g, or other

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Figure 1. The 10 most common types of errors in the 1000-word test. The number of errors of each type is indicated by the height of the bar. The error types are: (1) missing a letter, (2) missing a syllable, (3) missing a word, (4) missing a sentence, (5) missing a paragraph, (6) missing a section, (7) missing a chapter, (8) missing a volume, (9) missing a page, and (10) missing a line.

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[illegible]

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Val	Trp	Lys	Gln	Arg	Ile	Ser	Ser	Pro	Leu	Phe	Asn	Thr	Lys	Gln
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Tyr	Thr	Met	Glu	Leu	Glu	Arg	Leu	Tyr	Leu	Gln	Met	Trp	Glu	His
				890					895					900
Tyr	Ala	Ala	Gly	Asn	Lys	Pro	Asp	His	Met	Ile	Lys	Pro	Val	Glu
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Val	Thr	Glu	Ser	Ala										
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Glu	Ala	Asn	Met	Arg	Lys	Arg	Arg	Lys	Glu	Ala	Thr	Ser	Ile	Leu
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Glu	Glu	Asn	Gln	Ala	Leu	Cys	Thr	Ile	Thr	Ser	Phe	Pro	Arg	Leu
			140						145					150
Gly	Cys	Pro	Gly	Phe	Thr	Leu	Pro	Glu	Val	Lys	Pro	Asn	Pro	Val
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Glu	Gly	Gly	Ala	Ser	Lys	Ser	Leu	Phe	Phe	Pro	Asp	Glu	Ala	Ile
			170						175					180

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ctcagaaggg ttagaaaaga ctgtggcttc catttttagat gannnnnnnn nnnnnnnnnn 360
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ctgaggaaag caaactacta tggtgtgagc agcccaatgg agaggcccac aagacaacga 480
actgaagcct ccagcaacaa ccctgtgagg tcagtttgga agtggatttt ctagcccaa 540
ttgagcttaa gatgacttca gcttcagcag acagcttgac tgcagccttt ctagagagca 600
agcaccaccc agctctgctg cttctagacc cctgacctca gaaattgcac gagataacat 660
gtttgctggt tcaggctgcc aaatttaggg gctggaactg ccataaagg ctggcacccc 720
agcagccacc ttgagaaatg cagtgatgat gctgagtggc aaggcagaag gcacagggtc 780
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<210> 81
<211> 351
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 199507.1

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ttagctgact ttttagattc ttttttcttt tacatgatgt agttctcaga tatatacggg 180
atctctagtt cttaaagtc agtatttttt ttctgttaaa atatttatga actatttcaa 240
acattcagaa aaactcagga tcatacccat aaaccactg tttagatttt aaaaagttca 300
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<210> 82
<211> 919
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1434821CB1

<220>
<221> unsure
<222> 15, 19, 40, 48, 55-56, 85-86, 88-299, 859, 861, 863, 866, 872, 874-875,
877, 879-881, 890, 906-907
<223> a, t, c, g, or other

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gctctttaag caaacagagc ctgcctata aaatccgggg ctcgggcggc ctctcatccc 360
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tctgcgcctt ggtcctggtg tccatgctgg cctcggcac cctggccgag gccagacag 480
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cccagtgtgc aaataagggc tgcgttttcg acgacacgt tcgtgggggc cctggtgct 600
tctatcctaa taccatcgac gtccctccag aagaggagt tgaattttag acacttctgc 660
agggatctgc ctgcactctg acgcggtgcc gtccccagca cgggtgattag tcccagagct 720
cggctgccac ctccaccgga cacctcagac acgcttctgc agctgtgcct cggctcacia 780
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cacagattga ctgctctgac ttgactact caaaattggc ctaaaaatta aaagagatcg 840
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gcggnncga ctaatgaat 919

<210> 83
<211> 84
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1434821CD1

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Ser Met Leu Ala Leu Gly Thr Leu Ala Glu Ala Gln Thr Glu Thr
20 25 30
Cys Thr Val Ala Pro Arg Glu Arg Gln Asn Cys Gly Phe Pro Gly
35 40 45
Val Thr Pro Ser Gln Cys Ala Asn Lys Gly Cys Cys Phe Asp Asp
50 55 60
Thr Val Arg Gly Val Pro Trp Cys Phe Tyr Pro Asn Thr Ile Asp
65 70 75
Val Pro Pro Glu Glu Glu Cys Glu Phe
80

<210> 84
<211> 2734
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 289671.27

<400> 84
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attggagtgga agaactggag agaaaggggt gtcactgtcc agcactacac agctgcaggc 180
acacagatgg tacacattcc cagaaagaca cataggtaga cacgtggctg tacacccatg 240
cacacacaaa caatcacgca tacctgtagg catgtgtgta aacaccacaca tgcaccacaca 300
cccacatgcc tggcagtaca cagaactgta tgcattccatt tgtgccaggc tggggccttg 360
agtgatagga aaggggtctg tgatgggtag atagtgtggt tggagacacg gatttcttcc 420
tgaacaaagt ccctccccta catggtggac atgggatgag acggccttca gttacttcct 480
cttgaccccc agggctgcct gccgcctcat gtaggacagg atgtccatct tgacgttgct 540
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ctcaaattcc agcggatgtc gtgaaccttc atgggttccc agaagaggcg gtcagatgta 660
cccaggagct ccgaggtggg aggcacaggag ttcttttagga aagtgtagaa tttctgtctt 720
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ccttcggagg acgtgcctc acccctcact ggtccactgg cttgagactc acccgtctg 2700
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<210> 85

<211> 528

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1282225CB1

<400> 85

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ggaaaacttt gaagccttca tgaaggcaat cgggtctgccg gaagagctca tccagaaggg 180
gaaggatata aaggggggtgt cggaaatcgt gcagaatggg aagcacttca agttcaccat 240
caccgctggg tccaaagtga tccaaaacga attcacgggtg ggggaggaat gtgagctgga 300
gacaatgaca ggggagaaaag tcaagacagt ggttcagttg gaagggtgaca ataaactggg 360
gacagctttc aaaaacatca agtctgtgac cgaactcaac ggcgacataa tcaccaatac 420
catgacattg ggtgacattg tcttcaagag aatcagcaag agaattttaa caagtctgca 480
tttcatatta ttttagtgtg taaaattaat gtaataaagt gaactttg 528

<210> 86

<211> 127

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1282225CD1

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<400> 86

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  20           25           30
Lys Gly Lys Asp Ile Lys Gly Val Ser Glu Ile Val Gln Asn Gly
  35           40           45
Lys His Phe Lys Phe Thr Ile Thr Ala Gly Ser Lys Val Ile Gln
  50           55           60
Asn Glu Phe Thr Val Gly Glu Glu Cys Glu Leu Glu Thr Met Thr
  65           70           75
Gly Glu Lys Val Lys Thr Val Val Gln Leu Glu Gly Asp Asn Lys
  80           85           90
Leu Val Thr Ala Phe Lys Asn Ile Lys Ser Val Thr Glu Leu Asn
  95          100          105
Gly Asp Ile Ile Thr Asn Thr Met Thr Leu Gly Asp Ile Val Phe
 110          115          120
Lys Arg Ile Ser Lys Arg Ile
 125
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<210> 87

<211> 324

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 263336.57

<400> 87

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tgtgcccagg gctgcgtctg caaaggggca tcggagaagt gcagctgctg tgccctgatgt 180
gggaacagct cttctcccag atgtaaatag aacaacctgc acaacctgga tttttttaa 240
aatacaaacac tgagccattt gctgcatttc tttttataact aaatatgtga ctgacaataa 300
aaacaatttt gacttttaaaa aaaa                                     324
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<210> 88

<211> 933

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 464689.40

<400> 88

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agatgctctg tggactgaat gccaggaaact ggaagtgttc cgaaatttca tcatcacatg 180
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gtaaatcctt ggcattggca tagagaaaca agttactggg gaggcctggg gcatggcatc 300
cctgccagct ggcaggagga ggtggcctgt gtgccttgca ggtgacaatg tgggcagctc 360
atgaaggtag gcttgaagcc ccaggcaagc ccagtgaccc ggtcacagtg aagtgcctgt 420
gtgtgtaaga aactgacaga acgtgctgtc cctgcctcct gctctttcac atgtgtagat 480
cgtagctggg gtgaactact tcttgacgt ggagctgggc cgaaccacgt gtaccaagac 540
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ctgctctttc cagatctacg ctgtgccttg gcagggcaca atgaccttgt cgaaatccac 660
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cctcccaccc cctgtattcc cacccttgga ctgggtggcc ctgccttggg gaaggtctcc 780
ccatgtgcct gcaccaggag acagacagag aaggcagcag gcggcctttg ttgtctagca 840
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ccccacctcc tgcaataaaa tagtagcatc ggc 933
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<210> 89
<211> 1788
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 155943.1

<220>
<221> unsure
<222> 32, 361, 1085, 1180, 1183, 1191, 1207, 1234, 1247, 1275, 1319,
1327-1328, 1332, 1336, 1338, 1343, 1345, 1351, 1353, 1362-1363, 1366, 1368,
1376-1378, 1380, 1383-1384, 1388, 1396, 1398-1399, 1402, 1411-1413
<223> a, t, c, g, or other

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<400> 89
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acacttgggg catggtaac caaatttcat gtgcacgggt tccctttagc ccaactgcca 180
aatttcacat acccttcacc ctttgttccc ttgttaaaag gagtgggtatc tgttttgagc 240
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catttggaac tttggcagtg agaagccaaa aggaagagggt gaatgacata tatatatata 360
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tatgctgacc agtttttgga aaataatggt ttttatagca agcaaaagagc tttatggcac 1740
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<210> 90

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<211> 1111
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 243794.19c

<220>
<221> unsure
<222> 519-616, 774-963
<223> a, t, c, g, or other

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caacttaatg aaaccgatat ccttcgcgta ctgacggaaa cactggcggc acatattgag 180
gccatatttc cggatcagac cgtgcgggtt tgaacagaca cgacaagagc gagaaccctg 240
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nnntggtgag actctatctc caacaacaaa acaaaaacct cttacaaatg aatgagaaaa 1020
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<210> 91
<211> 961
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 243794.23

<220>
<221> unsure
<222> 739
<223> a, t, c, g, or other

<400> 91
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gttgggtgga agactgtgtc ttctgtgtgt tttggatgag taccagaact ttctgcgtct 180
gtttttcacc ctaccaatg cagtgtttac ctaaaaaatg cgttgaatag agcttcttgc 240
ttttacctcg ttgcaactgt gagagcaaga tgggtcacca gcagctgtac tggagccacc 300
cgcgaaaatt cggccagggt tctcgtctct gtctgtgtct ttcaaaccgg cacgggtctga 360
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ggtgctcagc tttctgcggc ggggttccggg ctgtattccc tttatgggcy cccctaaatt 660
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<210> 92

<211> 3041

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 159309CB1

<400> 92

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gaagccttcc aaggaaccaa ggtgtttgtg atgcccattg ggatgctgaa aagcaaccag 540
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Lys	Glu	Pro	Ile	Leu	Asn	Ile	His	Asp	Leu	Thr	Gln	Ile	His	Ser
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Asp	Met	Asn	Leu	Pro	Val	Pro	Asp	Pro	Ile	Leu	Leu	Thr	Asn	Ser
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His	Asp	Gly	Leu	Asp	Gly	Pro	Thr	Tyr	Lys	Lys	Arg	Arg	Leu	Asp
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Val	Lys	Met	Trp	Val	Gln	Leu	Leu	Ile	Pro	Arg	Ile	Glu	Asp	Gly
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Tyr	Pro	His	Val	Glu	Asp	Tyr	Arg	Arg	Thr	Val	Thr	Glu	Ile	Asp
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Glu	Lys	Glu	Tyr	Ile	Ser	Leu	Arg	Leu	Ile	Ile	Ser	Glu	Leu	Arg

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Asn	Gln	Tyr	Val	Thr	Leu	His	Asp	Met	Ile	Leu	Lys	Asn	Ile	Glu
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				230					235					240
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<212> DNA
<213> Homo sapiens

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<212> PRT
<213> Homo sapiens

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<223> Incyte ID No: 1273641CD1

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Thr Leu Arg Asp Thr Pro Met Met Val His Thr Gly Pro Cys Cys
35 40 45
Cys Cys Cys Pro Cys Cys Gln Arg Leu Leu Leu Thr Arg Lys Lys
50 55 60

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Leu Gln Leu Leu Met Leu Gly Pro Phe Gln Tyr Ala Phe Leu Lys
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Ile Thr Leu Thr Trp Trp Ala Leu Phe Ser Ser Pro Thr Glu Ser
80 85 90
Tyr Asp Pro Ala Asp Ile Ser Glu Gly Ser Thr Ala Leu Trp Ile
95 100 105
Asn Thr Phe Leu Gly Val Ser Thr Leu Leu Ala Leu Trp Thr Leu
110 115 120
Gly Ile Ile Ser Arg Gln Ala Arg Leu His Leu Gly Glu Gln Asn
125 130 135
Met Gly Ala Lys Phe Ala Leu Phe Gln Val Leu Leu Ile Leu Thr
140 145 150
Ala Leu Gln Pro Ser Ile Phe Ser Val Leu Ala Asn Gly Gly Gln
155 160 165
Ile Ala Cys Ser Pro Pro Tyr Ser Ser Lys Thr Arg Ser Gln Val
170 175 180
Met Asn Cys His Leu Leu Ile Leu Glu Thr Phe Leu Met Thr Val
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<221> unsure

<222> 502-546, 605-661

<223> a, t, c, g, or other

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<212> DNA

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<220>

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<222> 104, 2838

<223> a, t, c, g, or other

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<213> Homo sapiens

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<210> 100

<211> 3042

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 898899.32

<220>

<221> unsure

<222> 865, 881, 888-889, 897, 1850, 3016

<223> a, t, c, g; or other

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<210> 101

<211> 1952

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2047630CB1

<400> 101

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<210> 102

<211> 561

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2047630CD1

<400> 102

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Ala Phe Arg Phe Glu Asn Val Asn Gly Tyr Thr Asn Cys Cys Phe
          35          40          45
Gly Phe His Arg Leu Ala Val Val Asp Pro Leu Phe Gly Met Gln
          50          55          60
Pro Ile Arg Val Lys Lys Tyr Pro Tyr Leu Trp Leu Cys Tyr Asn
          65          70          75
Gly Glu Ile Tyr Asn His Lys Lys Met Gln Gln His Phe Glu Phe
          80          85          90
Glu Tyr Gln Thr Lys Val Asp Gly Glu Ile Ile Leu His Leu Tyr
          95          100          105
Asp Lys Gly Gly Ile Glu Gln Thr Ile Cys Met Leu Asp Gly Val
          110          115          120
Phe Ala Phe Val Leu Leu Asp Thr Ala Asn Lys Lys Val Phe Leu
          125          130          135
Gly Arg Asp Thr Tyr Gly Val Arg Pro Leu Phe Lys Ala Met Thr
          140          145          150
Glu Asp Gly Phe Leu Ala Val Cys Ser Glu Ala Lys Gly Leu Val
          155          160          165
Thr Leu Lys His Ser Ala Thr Pro Phe Leu Lys Val Glu Pro Phe

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170	175	180
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185	190	195
Val Ala Ser Val Glu Met Val Lys Tyr	His His Cys Arg Asp Glu	
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Pro Leu His Ala Leu Tyr Asp Asn Val	Glu Lys Leu Phe Pro Gly	
215	220	225
Phe Glu Ile Glu Thr Val Lys Asn Asn	Leu Arg Ile Leu Phe Asn	
230	235	240
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245	250	255
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260	265	270
Leu Lys Gln Leu Lys Glu Ala Gln Val	Gln Tyr Pro Leu Gln Thr	
275	280	285
Phe Ala Ile Gly Met Glu Asp Ser Pro	Asp Leu Leu Ala Ala Arg	
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Lys Val Ala Asp His Ile Gly Ser Glu	His Tyr Glu Val Leu Phe	
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Asn Ser Glu Glu Gly Ile Gln Ala Leu	Asp Glu Val Ile Phe Ser	
320	325	330
Leu Glu Thr Tyr Asp Ile Thr Thr Val	Arg Ala Ser Val Gly Met	
335	340	345
Tyr Leu Ile Ser Lys Tyr Ile Arg Lys	Asn Thr Asp Ser Val Val	
350	355	360
Ile Phe Ser Gly Glu Gly Ser Asp Glu	Leu Thr Gln Gly Tyr Ile	
365	370	375
Tyr Phe His Lys Ala Pro Ser Pro Glu	Lys Ala Glu Glu Glu Ser	
380	385	390
Glu Arg Leu Leu Arg Glu Leu Tyr Leu	Phe Asp Val Leu Arg Ala	
395	400	405
Asp Arg Thr Thr Ala Ala His Gly Leu	Glu Leu Arg Val Pro Phe	
410	415	420
Leu Asp His Arg Phe Ser Ser Tyr Tyr	Leu Ser Leu Pro Pro Glu	
425	430	435
Met Arg Ile Pro Lys Asn Gly Ile Glu	Lys His Leu Leu Arg Glu	
440	445	450
Thr Phe Glu Asp Ser Asn Leu Ile Pro	Lys Glu Ile Leu Trp Arg	
455	460	465
Pro Lys Glu Ala Phe Ser Asp Gly Ile	Thr Ser Val Lys Asn Ser	
470	475	480
Trp Phe Lys Ile Leu Gln Glu Tyr Val	Glu His Gln Val Asp Asp	
485	490	495
Ala Met Met Ala Asn Ala Ala Gln Lys	Phe Pro Phe Asn Thr Pro	
500	505	510
Lys Thr Lys Glu Gly Tyr Tyr Tyr Arg	Gln Val Phe Glu Arg His	
515	520	525
Tyr Pro Gly Arg Ala Asp Trp Leu Ser	His Tyr Trp Met Pro Lys	
530	535	540
Trp Ile Asn Ala Thr Asp Pro Ser Ala	Arg Thr Leu Thr His Tyr	
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Lys Ser Ala Val Lys Ala		
560		

<210> 103
 <211> 2764
 <212> DNA

PA-0035 US

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1039889.8

<400> 103

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<210> 104

PA-0035 US

<211> 1450

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1272969CB1

<400> 104

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<210> 105

<211> 430

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1272969CD1

<400> 105

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                      35                      40                      45
Ile Ser Val Ser Arg Ser Thr Ser Phe Arg Gly Gly Met Gly Ser
                      50                      55                      60
Gly Gly Leu Ala Thr Gly Ile Ala Gly Gly Leu Ala Gly Met Gly
                      65                      70                      75
Gly Ile Gln Asn Glu Lys Glu Thr Met Gln Ser Leu Asn Asp Arg
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Arg	Arg	Leu	Glu	Ser	Lys	Ile	Arg	Glu	His	Leu	Glu	Lys	Lys	Gly
	110				115									120
Pro	Gln	Val	Arg	Asp	Trp	Ser	His	Tyr	Phe	Lys	Ile	Ile	Glu	Asp
	125				130									135
Leu	Arg	Ala	Gln	Ile	Phe	Ala	Asn	Thr	Val	Asp	Asn	Ala	Arg	Ile
	140				145									150
Val	Leu	Gln	Ile	Asp	Asn	Ala	Arg	Leu	Ala	Ala	Asp	Asp	Phe	Arg
	155				160									165
Val	Lys	Tyr	Glu	Thr	Glu	Leu	Ala	Met	Arg	Gln	Ser	Val	Glu	Asn
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	200				205									210
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	215				220									225
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	230				235									240
Lys	Ser	Gln	Asp	Leu	Ala	Lys	Ile	Met	Ala	Asp	Ile	Arg	Ala	Gln
	245				250									255
Tyr	Asp	Glu	Leu	Ala	Arg	Lys	Asn	Arg	Glu	Glu	Leu	Asp	Lys	Tyr
	260				265									270
Trp	Ser	Gln	Gln	Ile	Glu	Glu	Ser	Thr	Thr	Val	Val	Thr	Thr	Gln
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Ser	Ala	Glu	Val	Gly	Ala	Ala	Glu	Thr	Thr	Leu	Thr	Glu	Leu	Arg
	290				295									300
Arg	Thr	Val	Gln	Ser	Leu	Glu	Ile	Asp	Leu	Asp	Ser	Met	Arg	Asn
	305				310									315
Leu	Lys	Ala	Ser	Leu	Glu	Asn	Ser	Leu	Arg	Glu	Val	Glu	Ala	Arg
	320				325									330
Tyr	Ala	Leu	Gln	Met	Glu	Gln	Leu	Asn	Gly	Ile	Leu	Leu	His	Leu
	335				340									345
Glu	Ser	Glu	Leu	Ala	Gln	Thr	Arg	Ala	Glu	Gly	Gln	Arg	Gln	Ala
	350				355									360
Gln	Glu	Tyr	Glu	Ala	Leu	Leu	Asn	Ile	Lys	Val	Lys	Leu	Glu	Ala
	365				370									375
Glu	Ile	Ala	Thr	Tyr	Arg	Arg	Leu	Leu	Glu	Asp	Gly	Glu	Asp	Phe
	380				385									390
Asn	Leu	Gly	Asp	Ala	Leu	Asp	Ser	Ser	Asn	Ser	Met	Gln	Thr	Ile
	395				400									405
Gln	Lys	Thr	Thr	Thr	Arg	Arg	Ile	Val	Asp	Gly	Lys	Val	Val	Ser
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<210> 106

<211> 6290

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 282397.85c

<400> 106

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 <213> Homo sapiens

PA-0035 US

<220>

<221> misc_feature

<223> Incyte ID No: 282397.94

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<211> 1521

<212> DNA

<213> Homo sapiens

<220>

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<223> Incyte ID No: 1448817CB1

<400> 108

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<211> 259

PA-0035 US

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1448817CD1

<400> 109

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Asp	Asn	Phe	His	Leu	Met	Ala	Pro	Ser	Glu	Glu	Asp	His	Ser	Ile	
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Gly	Ser	Pro	Glu	Ile	Arg	Gly	Asp	Pro	Asn	Cys	Gln	Ile	Tyr	Phe	
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<210> 110

<211> 919

<212> DNA

<213> Homo sapiens

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<221> misc_feature

<223> Incyte ID No: 1100769.2

<220>

<221> unsure

<222> 867

PA-0035 US

<223> a, t, c, g, or other

<400> 110

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<210> 111

<211> 1456

<212> DNA

<213> Homo sapiens

<220>

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<223> Incyte ID No: 332521.1

<220>

<221> unsure

<222> 128, 131, 141-160, 910, 923-947

<223> a, t, c, g, or other

<400> 111

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PA-0035 US

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<210> 112

<211> 4346

<212> DNA

<213> Homo sapiens

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<221> misc_feature

<223> Incyte ID No: 225080.16

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PA-0035 US

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PA-0035 US

<210> 118
<211> 281
<212> PRT
<213> Homo sapiens

<220>
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<223> Incyte ID No: 059509CD1

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Cys Val Leu Ile Val Ile Phe Thr Val Leu Leu Gln Ser Leu Cys
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Val Ala Val Thr 35 40 45
Gln Asp Lys Tyr Ser Lys Ser Gly Ile Ala Cys Phe Leu Lys Glu
50 55 60
Asp Asp Ser Tyr Trp Asp Pro Asn Asp Glu Glu Ser Met Asn Ser
65 70 75
Pro Cys Trp Gln Val Lys Trp Gln Leu Arg Gln Leu Val Arg Lys
80 85 90
Met Ile Leu Arg Thr Ser Glu Glu Thr Ile Ser Thr Val Gln Glu
95 100 105
Lys Gln Gln Asn Ile Ser Pro Leu Val Arg Glu Arg Gly Pro Gln
110 115 120
Arg Val Ala Ala His Ile Thr Gly Thr Arg Gly Arg Ser Asn Thr
125 130 135
Leu Ser Ser Pro Asn Ser Lys Asn Glu Lys Ala Leu Gly Arg Lys
140 145 150
Ile Asn Ser Trp Glu Ser Ser Arg Ser Gly His Ser Phe Leu Ser
155 160 165
Asn Leu His Leu Arg Asn Gly Glu Leu Val Ile His Glu Lys Gly
170 175 180
Phe Tyr Tyr Ile Tyr Ser Gln Thr Tyr Phe Arg Phe Gln Glu Glu
185 190 195
Ile Lys Glu Asn Thr Lys Asn Asp Lys Gln Met Val Gln Tyr Ile
200 205 210
Tyr Lys Tyr Thr Ser Tyr Pro Asp Pro Ile Leu Leu Met Lys Ser
215 220 225
Ala Arg Asn Ser Cys Trp Ser Lys Asp Ala Glu Tyr Gly Leu Tyr
230 235 240
Ser Ile Tyr Gln Gly Gly Ile Phe Glu Leu Lys Glu Asn Asp Arg
245 250 255
Ile Phe Val Ser Val Thr Asn Glu His Leu Ile Asp Met Asp His
260 265 270
Glu Ala Ser Phe Phe Gly Ala Phe Leu Val Gly
275 280

<210> 119
<211> 593
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 481231.14

<400> 119

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gcggtgctga ccttgccgt gctcttcctg acggggagcc aggtctcgga tttctggcag 180
caagatgaac cccccagag cccctgggat cgagtgaagg acctggccac tgtgtacgtg 240
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gagggcctga ggcaggagat gagcaaggat ctggaggagg tgaaggccaa ggtgcagccc 480
gcgctcgagg acctccgcca aggcctgctg cccgtgctgg agagcttcaa ggtcagcttc 540
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<210> 120

<211> 2218

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 280276CB1

<400> 120

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<210> 121
<211> 644
<212> PRT
<213> Homo sapiens
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<220>  
<221> misc_feature  
<223> Incyte ID No: 280276CD1
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125

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335 340 345
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350 355 360
Asn Pro Gly Ser Ser Glu Arg Gly Ser Ala Gly His Trp Thr Ser
365 370 375
Glu Ser Ser Val Ser Gly Ser Thr Gly Gln Trp His Ser Glu Ser
380 385 390
Gly Ser Phe Arg Pro Asp Ser Pro Gly Ser Gly Asn Ala Arg Pro
395 400 405
Asn Asn Pro Asp Trp Gly Thr Phe Glu Glu Val Ser Gly Asn Val
410 415 420
Ser Pro Gly Thr Arg Arg Glu Tyr His Thr Glu Lys Leu Val Thr
425 430 435
Ser Lys Gly Asp Lys Glu Leu Arg Thr Gly Lys Glu Lys Val Thr
440 445 450
Ser Gly Ser Thr Thr Thr Thr Arg Arg Ser Cys Ser Lys Thr Val
455 460 465
Thr Lys Thr Val Ile Gly Pro Asp Gly His Lys Glu Val Thr Lys
470 475 480
Glu Val Val Thr Ser Glu Asp Gly Ser Asp Cys Pro Glu Ala Met
485 490 495
Asp Leu Gly Thr Leu Ser Gly Ile Gly Thr Leu Asp Gly Phe Arg
500 505 510
His Arg His Pro Asp Glu Ala Ala Phe Phe Asp Thr Ala Ser Thr
515 520 525
Gly Lys Thr Phe Pro Gly Phe Phe Ser Pro Met Leu Gly Glu Phe
530 535 540
Val Ser Glu Thr Glu Ser Arg Gly Ser Glu Ser Gly Ile Phe Thr
545 550 555
Asn Thr Lys Glu Ser Ser Ser His His Pro Gly Ile Ala Glu Phe
560 565 570
Pro Ser Arg Gly Lys Ser Ser Ser Tyr Ser Lys Gln Phe Thr Ser
575 580 585
Ser Thr Ser Tyr Asn Arg Gly Asp Ser Thr Phe Glu Ser Lys Ser
590 595 600
Tyr Lys Met Ala Asp Glu Ala Gly Ser Glu Ala Asp His Glu Gly
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<211> 1712

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 4675668CB1

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<210> 123

<211> 437

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 4675668CD1

<400> 123

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20 25 30
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35 40 45
Glu Glu Glu Tyr Val Gly Pro Arg Leu Ser Arg Arg Ile Leu Gln
50 55 60
Gln Ala Arg Gln Gln Gln Glu Glu Leu Glu Ala Glu His Gly Thr
65 70 75
Gly Asp Lys Pro Ala Ala Pro Arg Glu Arg Thr Thr Arg Leu Gly
80 85 90
Pro Arg Met Pro Gln Asp Gly Ser Asp Asp Glu Asp Glu Glu Trp
95 100 105
Pro Thr Leu Glu Lys Ala Ala Thr Met Thr Ala Ala Gly His His
110 115 120
Ala Glu Val Val Val Asp Pro Glu Asp Glu Arg Ala Ile Glu Met
125 130 135

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Phe Met Asn Lys Asn Pro Pro Ala Arg Arg Thr Leu Ala Asp Ile
140 145 150
Ile Met Glu Lys Leu Thr Glu Lys Gln Thr Glu Val Glu Thr Val
155 160 165
Met Ser Glu Val Ser Gly Phe Pro Met Pro Gln Leu Asp Pro Arg
170 175 180
Val Leu Glu Val Tyr Arg Gly Val Arg Glu Val Leu Ser Lys Tyr
185 190 195
Arg Ser Gly Lys Leu Pro Lys Ala Phe Lys Ile Ile Pro Ala Leu
200 205 210
Ser Asn Trp Glu Gln Ile Leu Tyr Val Thr Glu Pro Glu Ala Trp
215 220 225
Thr Ala Ala Ala Met Tyr Gln Ala Thr Arg Ile Phe Ala Ser Asn
230 235 240
Leu Lys Glu Arg Met Ala Gln Arg Phe Tyr Asn Leu Val Leu Leu
245 250 255
Pro Arg Val Arg Asp Asp Val Ala Glu Tyr Lys Arg Leu Asn Phe
260 265 270
His Leu Tyr Met Ala Leu Lys Lys Ala Leu Phe Lys Pro Gly Ala
275 280 285
Trp Phe Lys Gly Ile Leu Ile Pro Leu Cys Glu Ser Gly Thr Cys
290 295 300
Thr Leu Arg Glu Ala Ile Ile Val Gly Ser Ile Ile Thr Lys Cys
305 310 315
Ser Ile Pro Val Leu His Ser Ser Ala Ala Met Leu Lys Ile Ala
320 325 330
Glu Met Glu Tyr Ser Gly Ala Asn Ser Ile Phe Leu Arg Leu Leu
335 340 345
Leu Asp Lys Lys Tyr Ala Leu Pro Tyr Arg Val Leu Asp Ala Leu
350 355 360
Val Phe His Phe Leu Gly Phe Arg Thr Glu Lys Arg Glu Leu Pro
365 370 375
Val Leu Trp His Gln Cys Leu Leu Thr Leu Val Gln Arg Tyr Lys
380 385 390
Ala Asp Leu Ala Thr Asp Gln Lys Glu Ala Leu Leu Glu Leu Leu
395 400 405
Arg Leu Gln Pro His Pro Gln Leu Ser Pro Glu Ile Arg Arg Glu
410 415 420
Leu Gln Ser Ala Val Pro Arg Asp Val Glu Asp Val Pro Ile Thr
425 430 435
Val Glu

<210> 124

<211> 2177

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 153825.1

<400> 124

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PA-0035 US

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<210> 125
<211> 2230
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 403484.2c

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acaacatgcc tgccctctgc aggcaccaga ggcaagaacc acagtgtct gcagagatta 2160
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taagtgtctg 2230

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<210> 126

<211> 2143

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1459432CB1

<400> 126

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gccgcagcct gcgtgggtgg aggggagctc agctcggttg tggcagcatg cgaccggcac 180
tggttgatg gacctggaag cctcgtctgt gccactggt cccaatgcca gcaacacctc 240
tgatggcccc gataacctca cttcggcagg atcacctcct cgcacgggga gcatctccta 300
catcaacatc atcatgcctt cgggtgttcg caccatctgc ctctgggca tcatcgggaa 360
ctccacggtc atcttcgcgg tcgtgaagaa gtccaagctg cactggtgca acaacgtccc 420
cgacatcttc atcatcaacc tctcggtagt agatctcctc tttctcctgg gcatgccctt 480
catgatccac cagctcatgg gcaatggggg gtggcacttt ggggagacca tgtgcacctt 540
catcacggcc atggatgcca atagtcagtt caccagcacc tacatcctga ccgccatggc 600
cattgaccgc tacctggcca ctgtccaccc catctcttcc acgaagtccc ggaagccctc 660
tgtggccacc ctggtgatct gctcctgtg ggccctctcc ttcatacagca tcacctctgt 720
gtggctgtat gccagactca tccccctccc aggaggtgca gtgggctgcg gcatacgcct 780
gccaaccca gacactgacc tctactgggt caccctgtac cagtttttcc tggcctttgc 840
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<210> 127
<211> 353
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1459432CD1
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<400> 127														
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Asn	Thr	Ser	Asp	Gly	Pro	Asp	Asn	Leu	Thr	Ser	Ala	Gly	Ser	Pro
				20					25					30
Pro	Arg	Thr	Gly	Ser	Ile	Ser	Tyr	Ile	Asn	Ile	Ile	Met	Pro	Ser
				35					40					45
Val	Phe	Gly	Thr	Ile	Cys	Leu	Leu	Gly	Ile	Ile	Gly	Asn	Ser	Thr
				50					55					60
Val	Ile	Phe	Ala	Val	Val	Lys	Lys	Ser	Lys	Leu	His	Trp	Cys	Asn
				65					70					75
Asn	Val	Pro	Asp	Ile	Phe	Ile	Ile	Asn	Leu	Ser	Val	Val	Asp	Leu
				80					85					90
Leu	Phe	Leu	Leu	Gly	Met	Pro	Phe	Met	Ile	His	Gln	Leu	Met	Gly
				95					100					105
Asn	Gly	Val	Trp	His	Phe	Gly	Glu	Thr	Met	Cys	Thr	Leu	Ile	Thr
				110					115					120
Ala	Met	Asp	Ala	Asn	Ser	Gln	Phe	Thr	Ser	Thr	Tyr	Ile	Leu	Thr
				125					130					135
Ala	Met	Ala	Ile	Asp	Arg	Tyr	Leu	Ala	Thr	Val	His	Pro	Ile	Ser
				140					145					150
Ser	Thr	Lys	Phe	Arg	Lys	Pro	Ser	Val	Ala	Thr	Leu	Val	Ile	Cys
				155					160					165
Leu	Leu	Trp	Ala	Leu	Ser	Phe	Ile	Ser	Ile	Thr	Pro	Val	Trp	Leu
				170					175					180
Tyr	Ala	Arg	Leu	Ile	Pro	Phe	Pro	Gly	Gly	Ala	Val	Gly	Cys	Gly
				185					190					195
Ile	Arg	Leu	Pro	Asn	Pro	Asp	Thr	Asp	Leu	Tyr	Trp	Phe	Thr	Leu
				200					205					210

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Tyr Gln Phe Phe Leu Ala Phe Ala Leu Pro Phe Val Val Ile Thr
215 220 225
Ala Ala Tyr Val Arg Ile Leu Gln Arg Met Thr Ser Ser Val Ala
230 235 240
Pro Thr Ser Gln Arg Ser Ile Arg Leu Arg Thr Lys Arg Val Thr
245 250 255
Arg Thr Ala Ile Ala Ile Cys Leu Val Phe Phe Val Cys Trp Ala
260 265 270
Pro Tyr Tyr Val Leu Gln Leu Thr Gln Leu Ser Ile Ser Arg Pro
275 280 285
Thr Pro Thr Phe Val Tyr Leu Tyr Asn Ala Ala Ile Ser Leu Gly
290 295 300
Tyr Ala Asn Ser Cys Leu Asn Pro Phe Val Tyr Ile Val Leu Cys
305 310 315
Glu Thr Phe Arg Lys Arg Leu Val Leu Ser Val Lys Pro Ala Ala
320 325 330
Gln Gly Gln Leu Arg Ala Val Ser Asn Ala Gln Ala Ala Asp Glu
335 340 345
Glu Arg Thr Glu Ser Lys Gly Thr
350

<210> 128
<211> 424
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1096583.1

<400> 128
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tacatagcct gagtttaaac ggcagggttt ggctagtctt aacttgctga agccagtcag 180
caccctcaca gagccagcta ggtactgggc ccaggggctt ccagagagtt cttcagagct 240
tctcagaggc ctgctagggt taggaggtcc ttaggcctct gagaagctct gaagaactct 300
ctggaagccc ctgggcccag tacctagctg gctctgtgag ggtgctgact ggcttcagca 360
agttagaact agccaaacca ggaccctgtc caatctttga caattgggag ctgccaaagag 420
tgaa 424

<210> 129
<211> 763
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 516300CB1

<400> 129
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aaaaagtaca catcgtgcct tctctacttc gctcttggaa cataatttct catggcagtg 180
tttaagacca ctctgtggag gttaatttct gggaccttag ggataatatg cctttcgttg 240
atggctacgt tgggaatttt gttgaaaaat tcttttacta aactgagtat tgagccagca 300
tttactccag gacccaacat agaactccag aaagactctg actgctgttc ttgccaaagaa 360
aaatgggttg ggtaccggtg caactgttac ttcatttcca gtgaacagaa aacttggaac 420

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gaaagtcggc atctctgtgc ttctcagaaa tccagcctgc ttcagcttca aaacacagat 480
gaactggatt ttatgagctc cagtcaacaa ttttactgga ttggactctc ttacagttag 540
gagcacaccg cctgggttggt ggagaatggc tctgcactct cccagtatct atttccatca 600
tttgaaactt ttaatacaaaa gaactgcata gcgtataatc caaatggaaa tgcttttagat 660
gaatcctgtg aagataaaaa tcgttatatc tgtaagcaac agctcattta aatgtttctt 720
ggggcagaga aggtggagag taaagacca acattactaa caa 763

<210> 130

<211> 179

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 516300CD1

<400> 130

Met Ala Val Phe Lys Thr Thr Leu Trp Arg Leu Ile Ser Gly Thr
1 5 10 15
Leu Gly Ile Ile Cys Leu Ser Leu Met Ala Thr Leu Gly Ile Leu
20 25 30
Leu Lys Asn Ser Phe Thr Lys Leu Ser Ile Glu Pro Ala Phe Thr
35 40 45
Pro Gly Pro Asn Ile Glu Leu Gln Lys Asp Ser Asp Cys Cys Ser
50 55 60
Cys Gln Glu Lys Trp Val Gly Tyr Arg Cys Asn Cys Tyr Phe Ile
65 70 75
Ser Ser Glu Gln Lys Thr Trp Asn Glu Ser Arg His Leu Cys Ala
80 85 90
Ser Gln Lys Ser Ser Leu Leu Gln Leu Gln Asn Thr Asp Glu Leu
95 100 105
Asp Phe Met Ser Ser Ser Gln Gln Phe Tyr Trp Ile Gly Leu Ser
110 115 120
Tyr Ser Glu Glu His Thr Ala Trp Leu Trp Glu Asn Gly Ser Ala
125 130 135
Leu Ser Gln Tyr Leu Phe Pro Ser Phe Glu Thr Phe Asn Thr Lys
140 145 150
Asn Cys Ile Ala Tyr Asn Pro Asn Gly Asn Ala Leu Asp Glu Ser
155 160 165
Cys Glu Asp Lys Asn Arg Tyr Ile Cys Lys Gln Gln Leu Ile
170 175

<210> 131

<211> 1449

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 627856CB1

<400> 131

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gcgacggtcc cgcggtagac atcgatataa gaagtaatgg gctgccacag agcccaaatt 120
ccctgctgtt cgactggctt tgcagaattt tgacatgact tacagtgtgc agtttggaga 180
tctttggcca tcaatccgtg tcagtctcct ctcagagcag aagtatggtg cactgggtcaa 240
taactttgct gcctgggatc atgtaagtgc taagctggag cagctgagtg ccaaggattt 300

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atcccctgcc tcctgggcct gcagtcgaa ccttcgatgc ttactttttg acagaagggga 420
taacagtcgc ttccctcctg ccagagtttg tgatcctacg agatgagaaa tgggggtggaa 480
acaaaacctt cacagcttac gtggacctgg aaaaggactt tgctgctgaa gttgtacatc 540
ctggagacct gaagaattct gttgaagtcg cactgaacaa gttgctggat ccaatccggg 600
aaaagtttaa tacccttgcc ctgaaaaaac tggccagcgc tgcctaccca gatccctcaa 660
agcagaagcc aatggccaaa ggccctgcca agaattcaga accagaggag gtcattccat 720
cccggctgga tatccgtgtg gggaaaatca tcactgtgga gaagcaccca gatgcagaca 780
gcctgtatgt agagaagatt gacgtggggg aagctgaacc acggactgtg gtgagcggcc 840
tcgtacagtt cgtgcccag gaggaactgc aggacaggct ggtagtgggt ctgtgcaacc 900
tgaaacccca gaagatgaga ggagtcgagt cccaaggcat gcttctgtgt gcttctatag 960
aagggataaa ccgccagggt gaacctctgg accctccggc aggtctctgt cctgggtgagc 1020
acgtgtttgt gaagggctat gaaaagggcc aaccagatga ggagctcaag cccaagaaga 1080
aagtcttcga gaagttgcag gctgacttca aaatttctga ggagtgcac gcacagtgga 1140
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acattagcta gccagcccag catcttcccc ccttcttcca ccactgagtc atctgctgtc 1260
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tttggaactt ttattcggtg cagaactcgg caaggggcag cttaccctcc ccagaaccca 1380
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gggagtcca 1449
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<210> 132

<211> 301

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 627856CD1

<400> 132

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20 25 30
Asp Ala Ser Leu Leu Thr Glu Gly Ile Thr Val Ala Ser Leu Leu
35 40 45
Pro Glu Phe Val Ile Leu Arg Asp Glu Lys Trp Gly Gly Asn Lys
50 55 60
Thr Tyr Thr Ala Tyr Val Asp Leu Glu Lys Asp Phe Ala Ala Glu
65 70 75
Val Val His Pro Gly Asp Leu Lys Asn Ser Val Glu Val Ala Leu
80 85 90
Asn Lys Leu Leu Asp Pro Ile Arg Glu Lys Phe Asn Thr Pro Ala
95 100 105
Leu Lys Lys Leu Ala Ser Ala Ala Tyr Pro Asp Pro Ser Lys Gln
110 115 120
Lys Pro Met Ala Lys Gly Pro Ala Lys Asn Ser Glu Pro Glu Glu
125 130 135
Val Ile Pro Ser Arg Leu Asp Ile Arg Val Gly Lys Ile Ile Thr
140 145 150
Val Glu Lys His Pro Asp Ala Asp Ser Leu Tyr Val Glu Lys Ile
155 160 165
Asp Val Gly Glu Ala Glu Pro Arg Thr Val Val Ser Gly Leu Val
170 175 180
Gln Phe Val Pro Lys Glu Glu Leu Gln Asp Arg Leu Val Val Val
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	185		190		195
Leu Cys Asn Leu	Lys Pro Gln Lys Met Arg Gly Val Glu Ser Gln				
	200		205		210
Gly Met Leu Leu	Cys Ala Ser Ile Glu Gly Ile Asn Arg Gln Val				
	215		220		225
Glu Pro Leu Asp	Pro Pro Ala Gly Ser Ala Pro Gly Glu His Val				
	230		235		240
Phe Val Lys Gly	Tyr Glu Lys Gly Gln Pro Asp Glu Glu Leu Lys				
	245		250		255
Pro Lys Lys Lys	Val Phe Glu Lys Leu Gln Ala Asp Phe Lys Ile				
	260		265		270
Ser Glu Glu Cys	Ile Ala Gln Trp Lys Gln Thr Asn Phe Met Thr				
	275		280		285
Lys Leu Gly Ser	Ile Ser Cys Lys Ser Leu Lys Gly Gly Asn Ile				
	290		295		300
Ser					

<210> 133
<211> 3482
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1823159CB1

<400> 133
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ctgcatcaac ttctaaatat aattcacact ccttgaggaa tgagtctatt aagaggacgt 180
ctcgagatgg agtcaatcga gatctcactg aggctgttcc tcgacttcca ggagaaacac 240
taatcactga caaagaagtt atttacatat gtcttttcaa tggccccatt aagggaagag 300
tttacatcac aaattatcgt ctttattttaa gaagtttgga aacggattct tctctaatac 360
ttgatgttcc tctgggtgtg atctcgagaa ttgaaaaaat gggaggcgcg acaagtagag 420
gagaaaaattc ctatgggtcta gatattactt gtaaagacat gagaaacctg aggttcgctt 480
tgaaacagga aggccacagc agaagagata tgtttgagat cctcacgaga tacgcgtttc 540
ccctggtcga cagtctgcca ttatttgcac ttttaaatga agaaaagttt aacgtggatg 600
gatggacagt ttacaatcca gtggaagaat acaggaggca gggcttgccc aatcaccatt 660
ggagaataac ttttattaat aagtgcctat agctctgtga cacttaccct gctcttttgg 720
tggttccgta tcgtgcctca gatgatgacc tccggagagt tgcaactttt aggtcccgaa 780
atcgaattcc agtgctgtca tggattcatc cagaaaataa gacggtcatt gtgcgttgca 840
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taaatgcagt ggccaacaag gcaacaggag gaggatatga aagtgatgat gcatatcata 1020
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aagtgaagga cattgtttat cctaattgtag aagaatctca ttggttgctc agtttggagt 1140
ctactcattg gttagaacat atcaagctcg ttttgacagg agccattcaa gtagcagaca 1200
aagtttcttc aggggaagagt tcagtgcctt tgcatgtcag tgacggatgg gacaggactg 1260
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atccagttgc cagtatgcgt cacttggaaac tctgggtgaa ttactacatt agatggaacc 1740

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ccaggatcaa gcaacaacag ccgaatccag tggagcagcg ttacatggag ctcttagcct 1800
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ctgatccccc aacttcacct tccagtcctt cgcaaatgat gcccacatgtg caaactcact 1920
tctgagggggg gaccctggca ccgcattaga gctcgaaata aaggcgatag ctgactttca 1980
tttgggggcat ttgtaaaaag tagattaaaa tatttgcctc catgtagaac ttgaactaac 2040
ataatcttaa actcttgaat atgtgccttc tagaatacat attacaagaa aactacaggg 2100
tccacacggc aatcagaaga aaggagctga gatgagggtt tggaaaaccc tgacaccttt 2160
aaaaagcagt ttttgaaaga caaaatttag atttaattta cgtcttgaga aatactatat 2220
atacaatata tattttgttg gcttaattga aacaacatta ttttaaaatc aaaggggata 2280
tatgtttgtg gaatggattt tctgaagct gcttaacagt tgctttggat tctctaagat 2340
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cattacccaa aagcaagggtg tttaagtaat tgccagcttt tataccatca tgagtgggta 2460
cttaaggaga aatagctgta tagatgagtt tttcattatt tggaaattta ggggtagaaa 2520
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aaaaagaaag ctaataactaa tagcctaaaa gattttgtga aatttcatga aaacttttta 3420
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<210> 134
<211> 603
<212> PRT
<213> Homo sapiens

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<220>
<221> misc_feature
<223> Incyte ID No: 1823159CD1

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<400> 134
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20 25 30
Leu Thr Glu Ala Val Pro Arg Leu Pro Gly Glu Thr Leu Ile Thr
35 40 45
Asp Lys Glu Val Ile Tyr Ile Cys Pro Phe Asn Gly Pro Ile Lys
50 55 60
Gly Arg Val Tyr Ile Thr Asn Tyr Arg Leu Tyr Leu Arg Ser Leu
65 70 75
Glu Thr Asp Ser Ser Leu Ile Leu Asp Val Pro Leu Gly Val Ile
80 85 90
Ser Arg Ile Glu Lys Met Gly Gly Ala Thr Ser Arg Gly Glu Asn
95 100 105
Ser Tyr Gly Leu Asp Ile Thr Cys Lys Asp Met Arg Asn Leu Arg

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	110		115		120
Phe Ala Leu Lys	Gln Glu Gly His Ser	Arg Arg Asp Met Phe	Glu		
	125		130		135
Ile Leu Thr Arg	Tyr Ala Phe Pro Leu	Ala His Ser Leu Pro	Leu		
	140		145		150
Phe Ala Phe Leu	Asn Glu Glu Lys Phe	Asn Val Asp Gly Trp	Thr		
	155		160		165
Val Tyr Asn Pro	Val Glu Glu Tyr Arg	Arg Gln Gly Leu Pro	Asn		
	170		175		180
His His Trp Arg	Ile Thr Phe Ile Asn	Lys Cys Tyr Glu Leu	Cys		
	185		190		195
Asp Thr Tyr Pro	Ala Leu Leu Val Val	Pro Tyr Arg Ala Ser	Asp		
	200		205		210
Asp Asp Leu Arg	Arg Val Ala Thr Phe	Arg Ser Arg Asn Arg	Ile		
	215		220		225
Pro Val Leu Ser	Trp Ile His Pro Glu	Asn Lys Thr Val Ile	Val		
	230		235		240
Arg Cys Ser Gln	Pro Leu Val Gly Met	Ser Gly Lys Arg Asn	Lys		
	245		250		255
Asp Asp Glu Lys	Tyr Leu Asp Val Ile	Arg Glu Thr Asn Lys	Gln		
	260		265		270
Ile Ser Lys Leu	Thr Ile Tyr Asp Ala	Arg Pro Ser Val Asn	Ala		
	275		280		285
Val Ala Asn Lys	Ala Thr Gly Gly Gly	Tyr Glu Ser Asp Asp	Ala		
	290		295		300
Tyr His Asn Ala	Glu Leu Phe Phe Leu	Asp Ile His Asn Ile	His		
	305		310		315
Val Met Arg Glu	Ser Leu Lys Lys Val	Lys Asp Ile Val Tyr	Pro		
	320		325		330
Asn Val Glu Glu	Ser His Trp Leu Ser	Ser Leu Glu Ser Thr	His		
	335		340		345
Trp Leu Glu His	Ile Lys Leu Val Leu	Thr Gly Ala Ile Gln	Val		
	350		355		360
Ala Asp Lys Val	Ser Ser Gly Lys Ser	Ser Val Leu Val His	Cys		
	365		370		375
Ser Asp Gly Trp	Asp Arg Thr Ala Gln	Leu Thr Ser Leu Ala	Met		
	380		385		390
Leu Met Leu Asp	Ser Phe Tyr Arg Ser	Ile Glu Gly Phe Glu	Ile		
	395		400		405
Leu Val Gln Lys	Glu Trp Ile Ser Phe	Gly His Lys Phe Ala	Ser		
	410		415		420
Arg Ile Gly His	Gly Asp Lys Asn His	Thr Asp Ala Asp Arg	Ser		
	425		430		435
Pro Ile Phe Leu	Gln Phe Ile Asp Cys	Val Trp Gln Met Ser	Lys		
	440		445		450
Gln Phe Pro Thr	Ala Phe Glu Phe Asn	Glu Gln Phe Leu Ile	Ile		
	455		460		465
Ile Leu Asp His	Leu Tyr Ser Cys Arg	Phe Gly Thr Phe Leu	Phe		
	470		475		480
Asn Cys Glu Ser	Ala Arg Glu Arg Gln	Lys Val Thr Glu Arg	Thr		
	485		490		495
Val Ser Leu Trp	Ser Leu Ile Asn Ser	Asn Lys Glu Lys Phe	Lys		
	500		505		510
Asn Pro Phe Tyr	Thr Lys Glu Ile Asn	Arg Val Leu Tyr Pro	Val		
	515		520		525
Ala Ser Met Arg	His Leu Glu Leu Trp	Val Asn Tyr Tyr Ile	Arg		

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Trp Asn Pro Arg	530	Ile Lys Gln Gln Gln	535	Pro Asn Pro Val Glu Gln	540
Arg Tyr Met Glu	545	Leu Leu Ala Leu Arg	550	Asp Glu Tyr Ile Lys Arg	555
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Thr His Phe	590		595		600

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<213> Homo sapiens

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<213> Homo sapiens

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<223> a, t, c, g, or other

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<211> 1197

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1630551CB1

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<211> 325

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<213> Homo sapiens

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<223> Incyte ID No: 1630551CD1

<400> 138

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35 40 45
Ala Leu Ser Ser Lys Ser Gly Leu Ser Arg Gly Arg Lys Val Met
50 55 60
Leu Ser Ala Leu Gly Met Leu Ala Ala Gly Gly Ala Gly Leu Ala
65 70 75
Val Ala Leu His Ser Ala Val Ser Ala Ser Asp Leu Glu Leu His
80 85 90
Pro Pro Ser Tyr Pro Trp Ser His Arg Gly Leu Leu Ser Ser Leu
95 100 105
Asp His Thr Ser Ile Arg Arg Gly Phe Gln Val Tyr Lys Gln Val
110 115 120
Cys Ala Ser Cys His Ser Met Asp Phe Val Ala Tyr Arg His Leu
125 130 135
Val Gly Val Cys Tyr Thr Glu Asp Glu Ala Lys Glu Leu Ala Ala
140 145 150
Glu Val Glu Val Gln Asp Gly Pro Asn Glu Asp Gly Glu Met Phe
155 160 165
Met Arg Pro Gly Lys Leu Phe Asp Tyr Phe Pro Lys Pro Tyr Pro
170 175 180
Asn Ser Glu Ala Ala Arg Ala Ala Asn Asn Gly Ala Leu Pro Pro
185 190 195
Asp Leu Ser Tyr Ile Val Arg Ala Arg His Gly Gly Glu Asp Tyr
200 205 210
Val Phe Ser Leu Leu Thr Gly Tyr Cys Glu Pro Pro Thr Gly Val
215 220 225
Ser Leu Arg Glu Gly Leu Tyr Phe Asn Pro Tyr Phe Pro Gly Gln
230 235 240
Ala Ile Ala Met Ala Pro Pro Ile Tyr Thr Asp Val Leu Glu Phe
245 250 255
Asp Asp Gly Thr Pro Ala Thr Met Ser Gln Ile Ala Lys Asp Val
260 265 270
Cys Thr Phe Leu Arg Trp Ala Ser Glu Pro Glu His Asp His Arg
275 280 285
Lys Arg Met Gly Leu Lys Met Leu Met Met Met Ala Leu Leu Val
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<211> 2100

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 360961.19

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<210> 140

<211> 2115

<212> DNA

<213> Homo sapiens

<220>

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<223> Incyte ID No: 809809CB1

<400> 140

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<211> 592

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 809809CD1

<400> 141

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 35 40 45
 Ala Cys Leu Glu Gly Lys Ser Pro Gly Glu Lys Val Ala Ile Ile
 50 55 60
 His Gln His Leu Gly Arg Arg Glu Met Thr Asp Val Ile Ile Glu
 65 70 75
 Thr Met Lys Ser Asn Pro Asp Glu Leu Lys Thr Thr Val Glu Glu
 80 85 90
 Arg Lys Ser Ser Glu Ala Ser Pro Thr Ala Gln Arg Ser Lys Asp
 95 100 105
 His Ser Lys Glu Cys Ile Asn Ala Ala Pro Asp Ser Pro Ser Lys
 110 115 120
 Gln Leu Pro Asp Gln Ile Ser Phe Phe Ser Gly Asn Pro Ser Val
 125 130 135
 Glu Ile Val His Gly Ile Met His Leu Tyr Lys Thr Asn Lys Met
 140 145 150
 Thr Ser Leu Lys Glu Asp Val Arg Arg Ser Ala Met Leu Cys Ile
 155 160 165
 Leu Thr Val Pro Ala Ala Met Thr Ser His Asp Leu Met Lys Phe

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Val	Ala	Pro	Phe	Asn	Glu	Val	Ile	Glu	Gln	Met	Lys	Ile	Ile	Arg	170	175	180
Asp	Ser	Thr	Pro	Asn	Gln	Tyr	Met	Val	Leu	Ile	Lys	Phe	Arg	Ala	185	190	195
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Phe	Asn	Ser	Ile	Glu	Asp	Asp	Val	Cys	Gln	Leu	Val	Tyr	Val	Glu	215	220	225
Arg	Ala	Glu	Val	Leu	Lys	Ser	Glu	Asp	Gly	Ala	Ser	Leu	Pro	Val	230	235	240
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Pro	Val	Cys	Arg	Tyr	Cys	Gln	Thr	Pro	Glu	Pro	Val	Glu	Glu	Asn	290	295	300
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Lys	Gln	Ser	Val	Glu	Arg	Lys	Cys	Thr	Gln	Leu	Asn	Thr	Lys	Val	455	460	465
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Cys	Leu	Arg	Ala	Asn	Gln	Val	Leu	Leu	Gln	Asn	Lys	Leu	Lys	Glu	485	490	495
Glu	Glu	Arg	Val	Leu	Lys	Glu	Thr	Cys	Asp	Gln	Lys	Asp	Leu	Gln	500	505	510
Ile	Thr	Glu	Ile	Gln	Glu	Gln	Leu	Arg	Asp	Val	Met	Phe	Tyr	Leu	515	520	525
Glu	Thr	Gln	Gln	Lys	Ile	Asn	His	Leu	Pro	Ala	Glu	Thr	Arg	Gln	530	535	540
Glu	Ile	Gln	Glu	Gly	Gln	Ile	Asn	Ile	Ala	Met	Ala	Ser	Ala	Ser	545	550	555
Ser	Pro	Ala	Ser	Ser	Gly	Gly	Ser	Gly	Lys	Leu	Pro	Ser	Arg	Lys	560	565	570
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590

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<213> Homo sapiens

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<211> 518
<212> PRT

PA-0035 US

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2558815CD1

<400> 143

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				20					25					30
Val	Val	Ser	Gln	Pro	Leu	Asn	Tyr	Arg	Gly	Gly	Ala	Arg	Val	Glu
				35					40					45
Pro	Ala	Asp	Ala	Ser	Gly	Thr	Glu	Lys	Ala	Phe	Glu	Pro	Ala	Thr
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Gly	Arg	Val	Ile	Ala	Thr	Phe	Thr	Cys	Ser	Gly	Glu	Lys	Glu	Val
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Asn	Leu	Ala	Val	Gln	Asn	Ala	Lys	Ala	Ala	Phe	Lys	Ile	Trp	Ser
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Gln	Lys	Ser	Gly	Met	Glu	Arg	Cys	Arg	Ile	Leu	Leu	Glu	Ala	Ala
				95					100					105
Arg	Ile	Ile	Arg	Glu	Arg	Glu	Asp	Glu	Ile	Ala	Thr	Met	Glu	Cys
				110					115					120
Ile	Asn	Asn	Gly	Lys	Ser	Ile	Phe	Glu	Ala	Arg	Leu	Asp	Ile	Asp
				125					130					135
Ile	Ser	Trp	Gln	Cys	Leu	Glu	Tyr	Tyr	Ala	Gly	Leu	Ala	Ala	Ser
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Thr	Arg	Arg	Glu	Pro	Leu	Gly	Val	Cys	Val	Gly	Ile	Gly	Ala	Trp
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Asn	Tyr	Pro	Phe	Gln	Ile	Ala	Ser	Trp	Lys	Ser	Ala	Pro	Ala	Leu
				185					190					195
Ala	Cys	Gly	Asn	Ala	Met	Val	Phe	Lys	Pro	Ser	Pro	Phe	Thr	Pro
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Val	Ser	Ala	Leu	Leu	Leu	Ala	Glu	Ile	Tyr	Ser	Glu	Ala	Gly	Val
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Pro	Pro	Gly	Leu	Phe	Asn	Val	Val	Gln	Gly	Gly	Ala	Ala	Thr	Gly
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Gln	Phe	Leu	Cys	Gln	His	Pro	Asp	Val	Ala	Lys	Val	Ser	Phe	Thr
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Gly	Ser	Val	Pro	Thr	Gly	Met	Lys	Ile	Met	Glu	Met	Ser	Ala	Lys
				260					265					270
Gly	Ile	Lys	Pro	Val	Thr	Leu	Glu	Leu	Gly	Gly	Lys	Ser	Pro	Leu
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Ile	Ile	Phe	Ser	Asp	Cys	Asp	Met	Asn	Asn	Ala	Val	Lys	Gly	Ala
				290					295					300
Leu	Met	Ala	Asn	Phe	Leu	Thr	Gln	Gly	Gln	Val	Cys	Cys	Asn	Gly
				305					310					315
Thr	Arg	Val	Phe	Val	Gln	Lys	Glu	Ile	Leu	Asp	Lys	Phe	Thr	Glu
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Glu	Val	Val	Lys	Gln	Thr	Gln	Arg	Ile	Lys	Ile	Gly	Asp	Pro	Leu
				335					340					345
Leu	Glu	Asp	Thr	Arg	Met	Gly	Pro	Leu	Ile	Asn	Arg	Pro	His	Leu
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Glu	Arg	Val	Leu	Gly	Phe	Val	Lys	Val	Ala	Lys	Glu	Gln	Gly	Ala

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Lys Val Leu Cys	Gly Gly Asp Ile Tyr	Val Pro Glu Asp Pro	Lys		
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Arg Asp Asp Met	Thr Cys Val Lys Glu	Glu Ile Phe Gly Pro	Val		
	410		415		420
Met Ser Ile Leu	Ser Phe Asp Thr Glu	Ala Glu Val Leu Glu	Arg		
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Ala Asn Asp Thr	Thr Phe Gly Leu Ala	Ala Gly Val Phe Thr	Arg		
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Asp Ile Gln Arg	Ala His Arg Val Val	Ala Glu Leu Gln Ala	Gly		
	455		460		465
Thr Cys Phe Ile	Asn Asn Tyr Asn Val	Ser Pro Val Glu Leu	Pro		
	470		475		480
Phe Gly Gly Tyr	Lys Lys Ser Gly Phe	Gly Arg Glu Asn Gly	Arg		
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<211> 2412

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 242010.16

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<211> 2458

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1678695CB1

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PA-0035 US

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<211> 641

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1678695CD1

<400> 146

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Asp Thr Glu Arg Leu Ile Gly Asp Ala Ala Lys Asn Gln Val Ala
 50          55          60
Leu Asn Pro Gln Asn Thr Val Phe Asp Ala Lys Arg Leu Ile Gly
 65          70          75
Arg Lys Phe Gly Asp Pro Val Val Gln Ser Asp Met Lys His Trp
 80          85          90
Pro Phe Gln Val Ile Asn Asp Gly Asp Lys Pro Lys Val Gln Val
 95          100         105
Ser Tyr Lys Gly Glu Thr Lys Ala Phe Tyr Pro Glu Glu Ile Ser
110          115         120
Ser Met Val Leu Thr Lys Met Lys Glu Ile Ala Glu Ala Tyr Leu
125          130         135
Gly Tyr Pro Val Thr Asn Ala Val Ile Thr Val Pro Ala Tyr Phe
140          145         150
Asn Asp Ser Gln Arg Gln Ala Thr Lys Asp Ala Gly Val Ile Ala
155          160         165
Gly Leu Asn Val Leu Arg Ile Ile Asn Glu Pro Thr Ala Ala Ala
170          175         180
Ile Ala Tyr Gly Leu Asp Arg Thr Gly Lys Gly Glu Arg Asn Val
185          190         195
Leu Ile Phe Asp Leu Gly Gly Gly Thr Phe Asp Val Ser Ile Leu
200          205         210
Thr Ile Asp Asp Gly Ile Phe Glu Val Lys Ala Thr Ala Gly Asp
215          220         225
Thr His Leu Gly Gly Glu Asp Phe Asp Asn Arg Leu Val Asn His
230          235         240
Phe Val Glu Glu Phe Lys Arg Lys His Lys Lys Asp Ile Ser Gln
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Lys Arg Thr Leu	260	Ser Ser Ser Thr Gln	265	Ala Ser Leu Glu Ile	270
Ser Leu Phe Glu	275	Gly Ile Asp Phe Tyr	280	Thr Ser Ile Thr Arg	285
Arg Phe Glu Glu	290	Leu Cys Ser Asp Leu	295	Phe Arg Ser Thr Leu	300
Pro Val Glu Lys	305	Ala Leu Arg Asp Ala	310	Lys Leu Asp Lys Ala	315
Ile His Asp Leu	320	Val Leu Val Gly Gly	325	Ser Thr Arg Ile Pro	330
Val Gln Lys Leu	335	Leu Gln Asp Phe Phe	340	Asn Gly Arg Asp Leu	345
Lys Ser Ile Asn	350	Pro Asp Glu Ala Val	355	Ala Tyr Gly Ala Ala	360
Gln Ala Ala Ile	365	Leu Met Gly Asp Lys	370	Ser Glu Asn Val Gln	375
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Ala Gly Gly Val	395	Met Thr Ala Leu Ile	400	Lys Arg Asn Ser Thr	405
Pro Thr Lys Gln	410	Thr Gln Ile Phe Thr	415	Thr Tyr Ser Asp Asn	420
Pro Gly Val Leu	425	Ile Gln Val Tyr Glu	430	Gly Glu Arg Ala Met	435
Lys Asp Asn Asn	440	Leu Leu Gly Arg Phe	445	Glu Leu Ser Gly Ile	450
Pro Ala Pro Arg	455	Gly Val Pro Gln Ile	460	Glu Val Thr Phe Asp	465
Asp Ala Asn Gly	470	Ile Leu Asn Val Thr	475	Ala Thr Asp Lys Ser	480
Gly Lys Ala Asn	485	Lys Ile Thr Ile Thr	490	Asn Asp Lys Gly Arg	495
Ser Lys Glu Glu	500	Ile Glu Arg Met Val	505	Gln Glu Ala Glu Lys	510
Lys Ala Glu Asp	515	Glu Val Gln Arg Glu	520	Arg Val Ser Ala Lys	525
Ala Leu Glu Ser	530	Tyr Ala Phe Asn Met	535	Lys Ser Ala Val Glu	540
Glu Gly Leu Lys	545	Gly Lys Ile Ser Glu	550	Ala Asp Lys Lys Lys	555
Leu Asp Lys Cys	560	Gln Glu Val Ile Ser	565	Trp Leu Asp Ala Asn	570
Leu Ala Glu Lys	575	Asp Glu Phe Glu His	580	Lys Arg Lys Glu Leu	585
Gln Val Cys Asn	590	Pro Ile Ile Ser Gly	595	Lys Arg Lys Glu Leu	600
Gly Pro Gly Pro	605	Gly Gly Phe Gly Ala	610	Leu Tyr Gln Gly Ala	615
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<212> DNA

PA-0035 US

<213> Homo sapiens

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<223> Incyte ID No: 988653.1

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<221> unsure

<222> 2626, 3304-3502

<223> a, t, c, g, or other

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<213> Homo sapiens

<220>
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35 40 45
Pro Leu Pro His Asn Val Ser Ser His Leu Asp Lys Ala Ser Val
50 55 60
Met Arg Leu Thr Ile Ser Tyr Leu Arg Val Arg Lys Leu Leu Asp
65 70 75
Ala Gly Asp Leu Asp Ile Glu Asp Asp Met Lys Ala Gln Met Asn
80 85 90

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Met	Gly	Leu	Thr	Gln	Phe	Glu	Leu	Thr	Gly	His	Ser	Val	Phe	Asp			
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Phe	Thr	His	Pro	Cys	Asp	His	Glu	Glu	Met	Arg	Glu	Met	Leu	Thr			
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His	Arg	Asn	Gly	Leu	Val	Lys	Lys	Gly	Lys	Glu	Gln	Asn	Thr	Gln			
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Arg	Ser	Phe	Phe	Leu	Arg	Met	Lys	Cys	Thr	Leu	Thr	Ser	Arg	Gly			
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Arg	Thr	Met	Asn	Ile	Lys	Ser	Ala	Thr	Trp	Lys	Val	Leu	His	Cys			
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Thr	Gly	His	Ile	His	Val	Tyr	Asp	Thr	Asn	Ser	Asn	Gln	Pro	Gln			
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Cys	Gly	Tyr	Lys	Lys	Pro	Pro	Met	Thr	Cys	Leu	Val	Leu	Ile	Cys			
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Glu	Pro	Ile	Pro	His	Pro	Ser	Asn	Ile	Glu	Ile	Pro	Leu	Asp	Ser			
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Lys	Thr	Phe	Leu	Ser	Arg	His	Ser	Leu	Asp	Met	Lys	Phe	Ser	Tyr			
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Cys	Asp	Glu	Arg	Ile	Thr	Glu	Leu	Met	Gly	Tyr	Glu	Pro	Glu	Glu			
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Leu	Leu	Gly	Arg	Ser	Ile	Tyr	Glu	Tyr	Tyr	His	Ala	Leu	Asp	Ser			
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Asp	His	Leu	Thr	Lys	Thr	His	His	Asp	Met	Phe	Thr	Lys	Gly	Gln			
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Val	Trp	Val	Glu	Thr	Gln	Ala	Thr	Val	Ile	Tyr	Asn	Thr	Lys	Asn			
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Ser	Gln	Pro	Gln	Cys	Ile	Val	Cys	Val	Asn	Tyr	Val	Val	Ser	Gly			
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Ile	Ile	Gln	His	Asp	Leu	Ile	Phe	Ser	Leu	Gln	Gln	Thr	Glu	Cys			
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Val	Leu	Lys	Pro	Val	Glu	Ser	Ser	Asp	Met	Lys	Met	Thr	Gln	Leu			
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Phe	Thr	Lys	Val	Glu	Ser	Glu	Asp	Thr	Ser	Ser	Leu	Phe	Asp	Lys			
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Leu	Lys	Lys	Glu	Pro	Asp	Ala	Leu	Thr	Leu	Leu	Ala	Pro	Ala	Ala			
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Gly	Asp	Thr	Ile	Ile	Ser	Leu	Asp	Phe	Gly	Ser	Asn	Asp	Thr	Glu			
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Thr	Asp	Asp	Gln	Gln	Leu	Glu	Glu	Val	Pro	Leu	Tyr	Asn	Asp	Val			
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Pro	Asn	Pro	Glu	Ser	Leu	Glu	Leu	Ser	Phe	Thr	Met	Pro	Gln	Ile			
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Ser Asp Met Val Asn Glu Phe Lys Leu Glu Leu Val Glu Lys Leu
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545 550 555
Thr Asp Leu Asp Leu Glu Met Leu Ala Pro Tyr Ile Pro Met Asp
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575 580 585
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590 595 600
Thr Val Phe Gln Gln Thr Gln Ile Gln Glu Pro Thr Ala Asn Ala
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635 640 645
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695 700 705
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Arg Lys Met Glu His Asp Gly Ser Leu Phe Gln Ala Val Gly Ile
725 730 735
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740 745 750
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755 760 765
Gly Met Glu Gln Lys Thr Ile Ile Leu Ile Pro Ser Asp Leu Ala
770 775 780
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785 790 795
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PA-0035 US

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<211> 463

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 014284CD1

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Glu Lys Lys Val Val Val Tyr Leu Gln Lys Leu Asp Thr Ala Tyr
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Asp Asp Leu Gly Asn Ser Gly His Phe Thr Ile Ile Tyr Asn Gln
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Lys Tyr Lys Glu Glu Gly Ser Lys Val Thr Thr Tyr Cys Asn Glu
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Thr Met Thr Gly Trp Val His Asp Val Leu Gly Arg Asn Trp Ala
          125          130          135
Cys Phe Thr Gly Lys Lys Val Gly Thr Ala Ser Glu Asn Val Tyr
          140          145          150
Val Asn Thr Ala His Leu Lys Asn Ser Gln Glu Lys Tyr Ser Asn
          155          160          165
Arg Leu Tyr Lys Tyr Asp His Asn Phe Val Lys Ala Ile Asn Ala
          170          175          180
Ile Gln Lys Ser Trp Thr Ala Thr Thr Tyr Met Glu Tyr Glu Thr
          185          190          195
Leu Thr Leu Gly Asp Met Ile Arg Arg Ser Gly Gly His Ser Arg
          200          205          210
Lys Ile Pro Arg Pro Lys Pro Ala Pro Leu Thr Ala Glu Ile Gln
          215          220          225
Gln Lys Ile Leu His Leu Pro Thr Ser Trp Asp Trp Arg Asn Val
          230          235          240
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Cys	Lys	Met	Lys	Glu	Asp	Cys	Phe	Arg	Tyr	Tyr	Ser	Ser	Glu	Tyr
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Val	Tyr	Asp	Asp	Phe	Leu	His	Tyr	Lys	Lys	Gly	Ile	Tyr	His	His
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Thr	Gly	Leu	Arg	Asp	Pro	Phe	Asn	Pro	Phe	Glu	Leu	Thr	Asn	His
				395					400					405
Ala	Val	Leu	Leu	Val	Gly	Tyr	Gly	Thr	Asp	Ser	Ala	Ser	Gly	Met
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Asp	Tyr	Trp	Ile	Val	Lys	Asn	Ser	Trp	Gly	Thr	Gly	Trp	Gly	Glu
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Asn	Gly	Tyr	Phe	Arg	Ile	Arg	Arg	Gly	Thr	Asp	Glu	Cys	Ala	Ile
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<211> 898

<212> DNA

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<210> 156

<211> 717

PA-0035 US

<212> DNA
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<221> unsure
<222> 564, 622, 669, 677, 700
<223> a, t, c, g, or other

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<211> 254

<212> PRT

<213> Homo sapiens

<220>

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<223> Incyte ID No: 1911808CD1

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				20					25					30
Val	Val	Asp	His	Val	Ile	Lys	Ile	Thr	Arg	Ile	Glu	Val	Gly	Asp
				35					40					45
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				80					85					90
Asn	Lys	Lys	Val	Met	Lys	Asp	Ser	Ala	Pro	Glu	Leu	Asn	Val	Ser
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Ser	Ser	Glu	Thr	Glu	Glu	Asp	Lys	Glu	Glu	Ala	Lys	Pro	Asp	Gly
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Glu	Lys	Asp	Pro	Asp	Phe	Asn	Gln	Ser	Asn	Gly	Gly	Thr	Lys	Arg
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Gln	Lys	Ile	Ser	His	Gln	Asn	Tyr	Ile	Ala	Tyr	Gln	Lys	Gln	Val
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Ile	Arg	Arg	Ser	Met	Arg	His	Arg	Lys	Val	Arg	Gly	Glu	Lys	Ala
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	185		190		195
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	200		205		210
Leu Gly Val Ile	Pro Glu Ser Val Ile	Leu Leu Lys Ala Asp	Glu		
	215		220		225
Pro Ile Ala Asp	Tyr Ala Ala Met Asp	Val Met Gln Val	Cys		
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<212> DNA

<213> Homo sapiens

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<221> unsure

<222> 1545, 1608, 1611, 1615, 1619, 3504-3528

<223> a, t, c, g, or other

<400> 159

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<211> 1056

<212> DNA

<213> Homo sapiens

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<211> 1557

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 405844.22

<400> 161

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<211> 2256

<212> DNA

PA-0035 US

<213> Homo sapiens

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<223> Incyte ID No: 2705515CB1

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<211> 471

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2705515CD1

<400> 163

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PA-0035 US

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Leu Ser Phe Asp Phe Gln
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<212> DNA
<213> Homo sapiens

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<211> 679

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2023119CD1

<400> 165

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Ile Ala Phe Val Leu Ala Phe Ser Val Gly Ala Asn Asp Val Ala
          35          40          45
Asn Ser Phe Gly Thr Ala Val Gly Ser Gly Val Val Thr Leu Lys
          50          55          60
Gln Ala Cys Ile Leu Ala Ser Ile Phe Glu Thr Val Gly Ser Val
          65          70          75
Leu Leu Gly Ala Lys Val Ser Glu Thr Ile Arg Lys Gly Leu Ile
          80          85          90
Asp Val Glu Met Tyr Asn Ser Thr Gln Gly Leu Leu Met Ala Gly
          95          100          105
Ser Val Ser Ala Met Phe Gly Ser Ala Val Trp Gln Leu Val Ala
          110          115          120
Ser Phe Leu Lys Leu Pro Ile Ser Gly Thr His Cys Ile Val Gly
          125          130          135
Ala Thr Ile Gly Phe Ser Leu Val Ala Lys Gly Gln Glu Gly Val
          140          145          150
Lys Trp Ser Glu Leu Ile Lys Ile Val Met Ser Trp Phe Val Ser
          155          160          165
Pro Leu Leu Ser Gly Ile Met Ser Gly Ile Leu Phe Phe Leu Val
          170          175          180
Arg Ala Phe Ile Leu His Lys Ala Asp Pro Val Pro Asn Gly Leu
          185          190          195
Arg Ala Leu Pro Val Phe Tyr Ala Cys Thr Val Gly Ile Asn Leu
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230	235	240
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245	250	255
Arg Lys Ile Glu	Arg Glu Ile Lys Cys	Ser Pro Ser Glu Ser Pro
260	265	270
Leu Met Glu Lys	Lys Asn Ser Leu Lys	Glu Asp His Glu Glu Thr
275	280	285
Lys Leu Ser Val	Gly Asp Ile Glu Asn	Lys His Pro Val Ser Glu
290	295	300
Val Gly Pro Ala	Thr Val Pro Leu Gln	Ala Val Val Glu Glu Arg
305	310	315
Thr Val Ser Phe	Lys Leu Gly Asp Leu	Glu Glu Ala Pro Glu Arg
320	325	330
Glu Arg Leu Pro	Ser Val Asp Leu Lys	Glu Glu Thr Ser Ile Asp
335	340	345
Ser Thr Val Asn	Gly Ala Val Gln Leu	Pro Asn Gly Asn Leu Val
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Gln Phe Ser Gln	Ala Val Ser Asn Gln	Ile Asn Ser Ser Gly His
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Tyr Gln Tyr His	Thr Val His Lys Asp	Ser Gly Leu Tyr Lys Glu
380	385	390
Leu Leu His Lys	Leu His Leu Ala Lys	Val Gly Asp Cys Met Gly
395	400	405
Asp Ser Gly Asp	Lys Pro Leu Arg Arg	Asn Asn Ser Tyr Thr Ser
410	415	420
Tyr Thr Met Ala	Ile Cys Gly Met Pro	Leu Asp Ser Phe Arg Ala
425	430	435
Lys Glu Gly Glu	Gln Lys Gly Glu Glu	Met Glu Lys Leu Thr Trp
440	445	450
Pro Asn Ala Asp	Ser Lys Lys Arg Ile	Arg Met Asp Ser Tyr Thr
455	460	465
Ser Tyr Cys Asn	Ala Val Ser Asp Leu	His Ser Ala Ser Glu Ile
470	475	480
Asp Met Ser Val	Lys Ala Glu Met Gly	Leu Gly Asp Arg Lys Gly
485	490	495
Ser Asn Gly Ser	Leu Glu Glu Trp Tyr	Asp Gln Asp Lys Pro Glu
500	505	510
Val Ser Leu Leu	Phe Gln Phe Leu Gln	Ile Leu Thr Ala Cys Phe
515	520	525
Gly Ser Phe Ala	His Gly Gly Asn Asp	Val Ser Asn Ala Ile Gly
530	535	540
Pro Leu Val Ala	Leu Tyr Leu Val Tyr	Asp Thr Gly Asp Val Ser
545	550	555
Ser Lys Val Ala	Thr Pro Ile Trp Leu	Leu Leu Tyr Gly Gly Val
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Gly Ile Cys Val	Gly Leu Trp Val Trp	Gly Arg Arg Val Ile Gln
575	580	585
Thr Met Gly Lys	Asp Leu Thr Pro Ile	Thr Pro Ser Ser Gly Phe
590	595	600
Ser Ile Glu Leu	Ala Ser Ala Leu Thr	Val Val Ile Ala Ser Asn
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Ile Gly Leu Pro	Ile Ser Thr Thr His	Cys Lys Val Gly Ser Val
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Leu	Phe	Arg	Asn	Ile	Phe	Met	Ala	Trp	Phe	Val	Thr	Val	Pro	Ile
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<213> Homo sapiens

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PA-0035 US

<211> 580
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<213> Homo sapiens

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PA-0035 US

<221> misc_feature

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<221> unsure

<222> 2249, 2262

<223> a, t, c, g, or other

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PA-0035 US

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PA-0035 US

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ctttgctgga aaaactccta cccgagagga aggaagtggg agagactgat gagatggacc 1200
aagtagaact ggtggacttt gatccaaatc aggaagagac gcgccactac aatggagaag 1260
catatgagga tgatgaacat catcccagag gtggtgttca gtgtcagacc tcttaattggg 1320
ccagtgaata acactcactg ctggcattta atgtgcagta gtgaatgagt gaaggactgt 1380
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aaaaagttaa atgaagaata aacgcaaat 1469

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<210> 178
<211> 397
<212> PRT
<213> Homo sapiens

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<220>
<221> misc_feature
<223> Incyte ID No: 2767012CD1

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<400> 178
Met Val Lys Glu Thr Thr Tyr Tyr Asp Val Leu Gly Val Lys Pro
  1                      5                      10                      15
Asn Ala Thr Gln Glu Glu Leu Lys Lys Ala Tyr Arg Lys Leu Ala
                20                      25                      30
Leu Lys Tyr His Pro Asp Lys Asn Pro Asn Glu Gly Glu Lys Phe
                35                      40                      45
Lys Gln Ile Ser Gln Ala Tyr Glu Val Leu Ser Asp Ala Lys Lys
                50                      55                      60
Arg Glu Leu Tyr Asp Lys Gly Gly Glu Gln Ala Ile Lys Glu Gly
                65                      70                      75
Gly Ala Gly Gly Gly Phe Gly Ser Pro Met Asp Ile Phe Asp Met
                80                      85                      90
Phe Phe Gly Gly Gly Gly Arg Met Gln Arg Glu Arg Arg Gly Lys
                95                      100                     105
Asn Val Val His Gln Leu Ser Val Thr Leu Glu Asp Leu Tyr Asn
                110                     115                     120
Gly Ala Thr Arg Lys Leu Ala Leu Gln Lys Asn Val Ile Cys Asp
                125                     130                     135
Lys Cys Glu Gly Arg Gly Gly Lys Lys Gly Ala Val Glu Cys Cys
                140                     145                     150
Pro Asn Cys Arg Gly Thr Gly Met Gln Ile Arg Ile His Gln Ile
                155                     160                     165
Gly Pro Gly Met Val Gln Gln Ile Gln Ser Val Cys Met Glu Cys
                170                     175                     180
Gln Gly His Gly Glu Arg Ile Ser Pro Lys Asp Arg Cys Lys Ser
                185                     190                     195

```

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Cys Asn Gly Arg Lys Ile Val Arg Glu Lys Lys Ile Leu Glu Val
200 205 210
His Ile Asp Lys Gly Met Lys Asp Gly Gln Lys Ile Thr Phe His
215 220 225
Gly Glu Gly Asp Gln Glu Pro Gly Leu Glu Pro Gly Asp Ile Ile
230 235 240
Ile Val Leu Asp Gln Lys Asp His Ala Val Phe Thr Arg Arg Gly
245 250 255
Glu Asp Leu Phe Met Cys Met Asp Ile Gln Leu Val Glu Ala Leu
260 265 270
Cys Gly Phe Gln Lys Pro Ile Ser Thr Leu Asp Asn Arg Thr Ile
275 280 285
Val Ile Thr Ser His Pro Gly Gln Ile Val Lys His Gly Asp Ile
290 295 300
Lys Cys Val Leu Asn Glu Gly Met Pro Ile Tyr Arg Arg Pro Tyr
305 310 315
Glu Lys Gly Arg Leu Ile Ile Glu Phe Lys Val Asn Phe Pro Glu
320 325 330
Asn Gly Phe Leu Ser Pro Asp Lys Leu Ser Leu Leu Glu Lys Leu
335 340 345
Leu Pro Glu Arg Lys Glu Val Glu Glu Thr Asp Glu Met Asp Gln
350 355 360
Val Glu Leu Val Asp Phe Asp Pro Asn Gln Glu Arg Arg Arg His
365 370 375
Tyr Asn Gly Glu Ala Tyr Glu Asp Asp Glu His His Pro Arg Gly
380 385 390
Gly Val Gln Cys Gln Thr Ser
395

<210> 179

<211> 2019

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1651724CB1

<400> 179

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tgccagcagc tccggcgcca cctcgggccg gcgtctccg cgtctgcgt tccccatggg 120
gctggcctgc cgcgccctgg cgctctgaga ttgtcactgc tgttccaagg gcacacgcag 180
agggatttgg aattcctgga gagttgcctt tgtgagaagc tggaaatatt tctttcaatt 240
ccatctctta gttttccata ggaacatcaa gaaatcatga acaactttgg taatgaagag 300
tttgactgcc acttcctcga tgaaggtttt actgccagg acattctgga ccagaaaatt 360
aatgaagttt cttcttctga tgataaggat gccttctatg tggcagacct gggagacatt 420
ctaaagaaac atctgaggtg gttaaaagct ctcctcgtg tcacccctt ttatgcagtc 480
aaatgtaatg atagcaaagc catcgtgaag acccttgctg ctaccgggac aggatttgac 540
tgtgctagca agactgaaat acagttggtg cagagtctgg ggggtgcctcc agagaggatt 600
atctatgcaa atccttgtaa acaagtatct caaattaagt atgctgctaa taatggagtc 660
cagatgatga cttttgatag tgaagttgag ttgatgaaag ttgccagagc acatcccaaa 720
gcaaagttgg ttttgcggat tgccactgat gattccaaag cagtctgtcg tctcagtgtg 780
aaattcgggt ccacgctcag aaccagcagg ctcccttttg aacgggcgaa agagctaaat 840
atcgatgttg ttggtgtcag cttccatgta ggaagcggct gtaccgatcc tgagaccttc 900
gtgcaggcaa tctctgatgc ccgctgtgtt tttgacatgg gggctgaggt tggtttcagc 960
atgtatctgc ttgatattgg cggtggcttt cctggatctg aggatgtgaa acttaaat 1020
gaagagatca ccggcgtaat caaccagcg ttggacaaat actttccgtc agactctgga 1080

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gtgagaatca tagctgagcc cggcagatac tatgttgcac cagctttcac gcttgcagtt 1140
aatatcattg ccaagaaaat tgtattaaag gaacagacgg gctctgatga cgaagatgag 1200
tcgagtgagc agacctttat gtattatgtg aatgatggcg tctatggatc atttaattgc 1260
atactctatg accacgcaca tgtaaagccc cttctgcaaa agagacctaa accagatgag 1320
aagtattatt catccagcat atggggacca acatgtgatg gcctcgatcg gattgttgag 1380
cgctgtgacc tgcctgaaat gcatgtgggt gattggatgc tctttgaaaa catgggcgct 1440
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atgtcagggc ctgctgggca actcatgcag caattccaga accccgactt cccaccgaa 1560
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cgccacagag cagcctgtgc ttcggctagt attaattgtg agatagcact ctggtagctg 1680
ttaactgcaa gtttagcttg aattaaggga tttgggggga ccatgtaact taattactgc 1740
tagttttgaa atgtctttgt aagagtaggg tcgccatgat gcagccatat ggaagactag 1800
gatatgggtc acacttatct gtgttcctat ggaaactatt tgaatatttg ttttatatgg 1860
atttttattc actcttcaga cagctactc aagagtgcc ctcagctgct gaacaagcat 1920
ttgtagcttg tacaatggca gaatgggcca aaagcttagt gttgtgacct gtttttaaaa 1980
taaagtatct tgaaataatt aggcaaaaaa aaaaaaaaaa 2019
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<210> 180

<211> 461

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1651724CD1

<400> 180

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  1          5          10          15
Glu Gly Phe Thr Ala Lys Asp Ile Leu Asp Gln Lys Ile Asn Glu
          20          25          30
Val Ser Ser Ser Asp Asp Lys Asp Ala Phe Tyr Val Ala Asp Leu
          35          40          45
Gly Asp Ile Leu Lys Lys His Leu Arg Trp Leu Lys Ala Leu Pro
          50          55          60
Arg Val Thr Pro Phe Tyr Ala Val Lys Cys Asn Asp Ser Lys Ala
          65          70          75
Ile Val Lys Thr Leu Ala Ala Thr Gly Thr Gly Phe Asp Cys Ala
          80          85          90
Ser Lys Thr Glu Ile Gln Leu Val Gln Ser Leu Gly Val Pro Pro
          95          100          105
Glu Arg Ile Ile Tyr Ala Asn Pro Cys Lys Gln Val Ser Gln Ile
          110          115          120
Lys Tyr Ala Ala Asn Asn Gly Val Gln Met Met Thr Phe Asp Ser
          125          130          135
Glu Val Glu Leu Met Lys Val Ala Arg Ala His Pro Lys Ala Lys
          140          145          150
Leu Val Leu Arg Ile Ala Thr Asp Asp Ser Lys Ala Val Cys Arg
          155          160          165
Leu Ser Val Lys Phe Gly Ala Thr Leu Arg Thr Ser Arg Leu Leu
          170          175          180
Leu Glu Arg Ala Lys Glu Leu Asn Ile Asp Val Val Gly Val Ser
          185          190          195
Phe His Val Gly Ser Gly Cys Thr Asp Pro Glu Thr Phe Val Gln
          200          205          210
Ala Ile Ser Asp Ala Arg Cys Val Phe Asp Met Gly Ala Glu Val
```

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	215		220		225
Gly Phe Ser Met	Tyr Leu Leu Asp Ile	Gly Gly Gly Phe Pro	Gly		
	230		235		240
Ser Glu Asp Val	Lys Leu Lys Phe Glu	Glu Ile Thr Gly Val	Ile		
	245		250		255
Asn Pro Ala Leu	Asp Lys Tyr Phe Pro	Ser Asp Ser Gly Val	Arg		
	260		265		270
Ile Ile Ala Glu	Pro Gly Arg Tyr Tyr	Val Ala Ser Ala Phe	Thr		
	275		280		285
Leu Ala Val Asn	Ile Ile Ala Lys Lys	Ile Val Leu Lys Glu	Gln		
	290		295		300
Thr Gly Ser Asp	Asp Glu Asp Glu Ser	Ser Glu Gln Thr Phe	Met		
	305		310		315
Tyr Tyr Val Asn	Asp Gly Val Tyr Gly	Ser Phe Asn Cys Ile	Leu		
	320		325		330
Tyr Asp His Ala	His Val Lys Pro Leu	Leu Gln Lys Arg Pro	Lys		
	335		340		345
Pro Asp Glu Lys	Tyr Tyr Ser Ser Ser	Ile Trp Gly Pro Thr	Cys		
	350		355		360
Asp Gly Leu Asp	Arg Ile Val Glu Arg	Cys Asp Leu Pro Glu	Met		
	365		370		375
His Val Gly Asp	Trp Met Leu Phe Glu	Asn Met Gly Ala Tyr	Thr		
	380		385		390
Val Ala Ala Ala	Ser Thr Phe Asn Gly	Phe Gln Arg Pro Thr	Ile		
	395		400		405
Tyr Tyr Val Met	Ser Gly Pro Ala Trp	Gln Leu Met Gln Gln	Phe		
	410		415		420
Gln Asn Pro Asp	Phe Pro Pro Glu Val	Glu Glu Gln Asp Ala	Ser		
	425		430		435
Thr Leu Pro Val	Ser Cys Ala Trp Glu	Ser Gly Met Lys Arg	His		
	440		445		450
Arg Ala Ala Cys	Ala Ser Ala Ser Ile	Asn Val			
	455		460		

<210> 181

<211> 265

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 206397.1

<400> 181

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taggaggaag	aaggaagtaa	tgtttttcca	gttttcgggt	aagaacttgc	tttgtattaa	120
aatagtcctt	caagtctaca	gccataccac	cctgaacgcg	cccaatctcg	tctaaaatag	180
tccttcaa	atgtatctct	tatagccttc	agttatccca	acaaaattat	ctaaagattt	240
gtttatctat	ttattattat	ttttt				265

<210> 182

<211> 715

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

PA-0035 US

<223> Incyte ID No: 461707.40

<400> 182

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gatacttccg gctcccccca ggtccccaag ctttactttt gtggggcacg acgagaaagt 120
ccgcagcccc aaacattccc agagggtccac ttggggccagt ggtactttat cgcaggggca 180
gctcccacca aggaggagtt ggcaactttt gaccctgtgg acaacattgt cttcaatatg 240
gctgtgtggt ctgccccgat gcagctccac cttcgtgcta ccatccgcac gaaagatggg 300
ctctgtgtgc cccggaaatg gatctaccac ctgactgaag ggagcacaga tctcagaact 360
gaaggccgcc ctgacatgaa gactgagctc ttttccagct catgcccagg tggaatcatg 420
ctgaatgaga caggccaggg ttaccagcgc tttctcctct acaatcgctc accacatcct 480
ccgaaaagt gtgtggagga attcaagtcc ctgacttcct gcctggactc caaagccttc 540
ttattgactc ctaggaatca agaggcctgt gagctgtcca ataactgacc tgtaacttca 600
tctaagtccc cagatgggta caatgggagc tgagttgttg gagggagaag ctggagactt 660
ccagctccag ctccactca agataataaa gataattttt caatcctcaa aaaaa 715
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<210> 183

<211> 962

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2706645CB1

<400> 183

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caggcctggc agccctgcc accccgccct cggctcccat tggctgccac ggctgcagt 120
gggctgcacc agggttcatc catcctccct gggcagaggg aataagaggc tgctctgcc 180
caccagtctt gccgccagg acccgagca gagacgacg ctgcagcaag gagaccagga 240
aggggtgaga caaggaagag gatgtctgag ctggagaagg ccatggtggc cctcatcgac 300
gttttccacc aatattctgg aaggaggga gacaagcaca agctgaagaa atccgaactc 360
aaggagctca tcaacaatga gctttcccat ttcttagagg aaatcaaaga gcaggagggt 420
gtggacaaaag tcatggaaac actggacaat gatggagacg gcgaatgtga cttccaggaa 480
ttcatggcct ttgttgccat ggttactact gcctgccacg agttctttga acatgagtga 540
gattagaaag cagccaaacc tttcctgtaa cagagatggg catgcaagaa agcagacagc 600
aagggttgc agcctagtag gagctgagct ttccagcgt gttgtagcta attaggaagc 660
ttgatttgc ttgtgattga aaaattgaaa acctctttcc aaaggctgtt ttaacggcct 720
gcatcattct ttctgtata ttaggcctgt gtgtaagctg actggcccca gggactcttg 780
ttaacagtaa ctaggagtc aggtctcagt gataaagcgt gcaccgtgca gcccgccatg 840
gccgtgtaga cctaaccgc gagggaaacc tgactacaga aattaccccg gggcaccctt 900
aaaacttcca ctacctttaa aaaacaaagc cttatccagc attatttgaa aacaaaaaaaa 960
aa 962
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<210> 184

<211> 92

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2706645CD1

<400> 184

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Met Ser Glu Leu Glu Lys Ala Met Val Ala Leu Ile Asp Val Phe
1 5 10 15
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```
<210> 186
<211> 2196
<212> DNA
<213> Homo sapiens
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<400> 186						
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gaactgcaaa	tcttattttc	ttttcacctt	ctctctaact	gcccagagct	agcgctgtg	180
gctcccgggc	tggtgtttcg	ggagtgtcca	gagagcctgg	tctccagccg	cccccgggag	240
gagagccctg	ctgcccaggc	gctgttgaca	gcggcgga	gcagcggtac	ccacgcgcc	300
gcgggggaa	gtcggcgagc	ggctgcagca	gcaaagaact	tccccgctg	gcaggaccgg	360
agacaagtgg	cacagtcccg	gagcgaaact	ttgcaagcct	ttcctgcgtc	ttaggttct	420
ccacggcgg	aaagaccaga	aggcggcgga	gagccacgca	agagaagaag	gacgtgcgt	480
cagcttcgct	cgcaccggtt	gttgaacttg	ggcgagcgcg	agccgcggct	gccgggcgcc	540
ccctccccct	agcagcggag	gaggggacaa	gtcgtcggag	tccgggcggc	caagaccgc	600
cgccggccgg	ccactgcagg	gtccgcactg	atccgctccg	cggggagagc	cgctgctctg	660
ggaagtgagt	tgcctgcgg	actccgagga	accgctgcgc	ccgaagagcg	ctcagtgagt	720
gaccgcgact	tttcaaagcc	gggtagcgcg	cgcgagtcca	caagtgaag	tgcgggagcg	780
atcttaatta	accctgcgct	ccctggagcg	agctgggtgag	gagggcgcac	ggggacgaca	840
gccagcggg	gcgtgcgctc	ttagagaaac	tttccctgtc	aaaggctccg	gggggcgcg	900
gtgtcccccg	cttgccagag	ccctgttgcg	gccccgaaac	ttgtgcgcgc	acccaaacta	960
acctcacgtg	aagtgacgga	ctgttctatg	actgcaaaga	tggaaacgac	cttctatgac	1020
gatgccctca	acgcctcggt	cctcccgctc	gagagcggac	cttatggcta	cagtaacccc	1080
aagatcctga	aacagagcat	gaccctgaac	ctggccgacc	cagtgggggag	cctgaagccg	1140
cacctccgcg	ccaagaactc	ggacctctc	acctcgcccc	acgtggggct	gctcaagctg	1200
gcgtcgcccc	agctggagcg	cctgataatc	cagtcacgca	acgggcacat	caccaccacg	1260
cggaccccc	ccagtttctt	gtgcccaag	aacgtgcacg	atgagcagga	gggttcgcc	1320
gagggcttcg	tgcgcgccct	ggccgaactg	cacagccaga	acacgctgcc	cagcgtcacg	1380
ccggcgcgcg	agcgggtgca	cggggcaggc	atgggtggctc	ccgcggtagc	ctcgggtggca	1440
gggggcagcg	gcagcgtcgg	cttcagcgcc	agcctgcaca	gcgagccgcc	ggtctacgca	1500
aacctcagca	acttcaacct	aggcgcgctg	agcagcgcg	gcggggcgcc	ctcctacggc	1560
gcggccggcc	tggcctttcc	cgcgcaacct	cagcagcagc	agcagccgcc	gcaccacctg	1620
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gtgcccagaga	tggccggcgca	gacaccgcc	ctgtccccc	tcgacatgga	gtcccaggag	1740
cggatcaagg	cggagaggaa	gcgcgatgag	aaccgcctcg	ctgcctccaa	gtgccgaaaa	1800
aggaagctgg	agagaatcgc	cgggctggag	gaaaaagtga	aaaccttgaa	agctcagaac	1860

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```
tctggagctgg cgtccacggc caacatgctc agggaaacagg tggcacagct taaacagaaa 1920
gtcatgaacc acgttaacag tgggtgccaa ctcatgctaa cgcagcagtt gcaaacattt 1980
tgaagagaga ccgtcggggg ctgagggggca acgaagaaaa aaaataacac agagagacag 2040
acttgagaac ttgacaagtt gcgacggaga gaaaaaagaa gtgtccgaga actaaagcca 2100
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<210> 187

<211> 331

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3592543CD1

<400> 187

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 20          25          30
Pro Lys Ile Leu Lys Gln Ser Met Thr Leu Asn Leu Ala Asp Pro
 35          40          45
Val Gly Ser Leu Lys Pro His Leu Arg Ala Lys Asn Ser Asp Leu
 50          55          60
Leu Thr Ser Pro Asp Val Gly Leu Leu Lys Leu Ala Ser Pro Glu
 65          70          75
Leu Glu Arg Leu Ile Ile Gln Ser Ser Asn Gly His Ile Thr Thr
 80          85          90
Thr Pro Thr Pro Thr Gln Phe Leu Cys Pro Lys Asn Val Thr Asp
 95          100         105
Glu Gln Glu Gly Phe Ala Glu Gly Phe Val Arg Ala Leu Ala Glu
110          115         120
Leu His Ser Gln Asn Thr Leu Pro Ser Val Thr Pro Ala Ala Gln
125          130         135
Arg Cys Asn Gly Ala Gly Met Val Ala Pro Ala Val Ala Ser Val
140          145         150
Ala Gly Gly Ser Gly Ser Val Gly Phe Ser Ala Ser Leu His Ser
155          160         165
Glu Pro Pro Val Tyr Ala Asn Leu Ser Asn Phe Asn Pro Gly Ala
170          175         180
Leu Ser Ser Gly Gly Gly Ala Pro Ser Tyr Gly Ala Ala Gly Leu
185          190         195
Ala Phe Pro Ala Gln Pro Gln Gln Gln Gln Gln Pro Pro His His
200          205         210
Leu Pro Gln Gln Met Pro Val Gln His Pro Arg Leu Gln Ala Leu
215          220         225
Lys Glu Glu Pro Gln Thr Val Pro Glu Met Pro Gly Glu Thr Pro
230          235         240
Pro Leu Ser Pro Ile Asp Met Glu Ser Gln Glu Arg Ile Lys Ala
245          250         255
Glu Arg Lys Arg Met Arg Asn Arg Ile Ala Ala Ser Lys Cys Arg
260          265         270
Lys Arg Lys Leu Glu Arg Ile Ala Arg Leu Glu Glu Lys Val Lys
275          280         285
Thr Leu Lys Ala Gln Asn Ser Glu Leu Ala Ser Thr Ala Asn Met
```


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	290		295		300
Leu Arg Glu Gln	Val Ala Gln Leu Lys	Gln Lys Val Met Asn	His		
	305		310		315
Val Asn Ser Gly	Cys Gln Leu Met Leu	Thr Gln Gln Leu Gln	Thr		
	320		325		330
Phe					

<210> 188
<211> 1427
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 048612.12c

<220>
<221> unsure
<222> 217-266
<223> a, t, c, g, or other

<400> 188
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aaaataattht aagcacaata ttaataacaa agcaactttt tttcaaggaa aactagtagg 120
tcatcttgcc caagatthttt ccaaagggtat taaatatatt ttcaataaca gtacatacaa 180
atacacatac acaaataatac cacacagaca catgtgnnnn nnnnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnntaca gctcaagtat ttttttggtg tgcattctag 300
ctaataccaca tagctaaagt gaaaaaacac tgaaaagatc aatgcctgag taaccttaaa 360
tttgaacaaa ctatgcattg gatgtgaatt tttggaggca tgctaagatt tcccttctca 420
atttcattag ctactaccca gtgttctgtg gttcttatcc ttaaaaaaat caaagtgtgc 480
ctttcagatc tgctcacggg gtggtgatga ttattatggt ggcgtcaatt tgggaacact 540
tgccctctct tgctcctact gcaccttatg gatgggaaaag ggaatgattt taaaggtaaa 600
gcactcaggc cctgattaca tctggcttat tctttgcttc aaggcaagga tctctctctc 660
gatttcacag gggaggctcg cattgacttg atcctccaga tacttctcga tgtcttccac 720
ctccttctcc cagaattcct tggagatgct gaaaagctcc atcatgttg tgtgccccag 780
gcctttcagg ttcagggcat cctccttggg gatgtagcct atgggcgtga gcttggtgct 840
ggcttttcca tcgatccggg tgaacatcca ctccagcacc ctggagtctc ctccaaagcc 900
tggccagagg aatttgctct ccttgcctct ccggaaccag ttgacatgga agatcttggg 960
cagtttggct gctgggtgct gggccatgct aagccagtgg gccaggattt tgccgaagtt 1020
gtagccaaag aagggccgca tggcaaaggg gtcatgcatg atgattttgc ctttatgttc 1080
tgcagccgct gtggcctctg atctcatggc cgccccaca aagactccat gttgccagct 1140
gagagcttca tagactagag ggacaccttt agcaggaaaa aaaaagagaa atgttcatca 1200
gaggctttga aattcagact ccacaaccag ttgtgttatt cacaacacgg aaagacacgg 1260
caagacaata actttgtaat cgagctagtt ttgcgttcac caagctaaat tgcagaaaac 1320
tgctaactca aagttacatg actgaggcca caaagtaaaa agtaaaattht gatcaagcta 1380
caatagatca gggattcaga aaggttccag gtgaccagaa ggggttgg 1427

<210> 189
<211> 2666
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 048612.13

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<220>

<221> unsure

<222> 2365, 2367-2399

<223> a, t, c, g, or other

<400> 189

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<211> 2358

<212> DNA

<213> Homo sapiens

PA-0035 US

<220>

<221> misc_feature

<223> Incyte ID No: 245259.16

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<211> 1273

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 522433CB1

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<211> 308

<212> PRT

<213> Homo sapiens

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<223> Incyte ID No: 522433CD1

<400> 192

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Ser	Leu	Ala	Glu	Ala	Ser	Arg	Ala	Ser	Phe	Pro	Gly	Pro	Ser	Glu
				35					40					45
Leu	His	Thr	Glu	Asp	Ser	Arg	Phe	Arg	Glu	Leu	Arg	Lys	Arg	Tyr
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Glu	Asp	Leu	Leu	Thr	Arg	Leu	Arg	Ala	Asn	Gln	Ser	Trp	Glu	Asp
				65					70					75
Ser	Asn	Thr	Asp	Leu	Val	Pro	Ala	Pro	Ala	Val	Arg	Ile	Leu	Thr
				80					85					90
Pro	Glu	Val	Arg	Leu	Gly	Ser	Gly	Gly	His	Leu	His	Leu	Arg	Ile
				95					100					105
Ser	Arg	Ala	Ala	Leu	Pro	Glu	Gly	Leu	Pro	Glu	Ala	Ser	Arg	Leu
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His	Arg	Ala	Leu	Phe	Arg	Leu	Ser	Pro	Thr	Ala	Ser	Arg	Ser	Trp
				125					130					135
Asp	Val	Thr	Arg	Pro	Leu	Arg	Arg	Gln	Leu	Ser	Leu	Ala	Arg	Pro
				140					145					150
Gln	Ala	Pro	Ala	Leu	His	Leu	Arg	Leu	Ser	Pro	Pro	Pro	Ser	Gln
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Arg Ala Arg Asn Gly Asp His Cys Pro Leu Gly Pro Gly Arg Cys					
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Cys Arg Leu His Thr Val Arg Ala Ser Leu Glu Asp Leu Gly Trp					
	215		220		225
Ala Asp Trp Val Leu Ser Pro Arg Glu Val Gln Val Thr Met Cys					
	230		235		240
Ile Gly Ala Cys Pro Ser Gln Phe Arg Ala Ala Asn Met His Ala					
	245		250		255
Gln Ile Lys Thr Ser Leu His Arg Leu Lys Pro Asp Thr Val Pro					
	260		265		270
Ala Pro Cys Cys Val Pro Ala Ser Tyr Asn Pro Met Val Leu Ile					
	275		280		285
Gln Lys Thr Asp Thr Gly Val Ser Leu Gln Thr Tyr Asp Asp Leu					
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<211> 372

<212> DNA

<213> Homo sapiens

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<221> misc_feature

<223> Incyte ID No: 1040667.43

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<221> unsure

<222> 48

<223> a, t, c, g, or other

<400> 193

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<211> 558

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<213> Homo sapiens

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<221> misc_feature

<223> Incyte ID No: 2048551CB1

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<211> 61

<212> PRT

<213> Homo sapiens

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<210> 196

<211> 3033

<212> DNA

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<210> 197

<211> 394

<212> PRT

<213> Homo sapiens

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<221> misc_feature

<223> Incyte ID No: 1969731CD1

<400> 197

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35          40          45
Val Thr Leu Cys Gly Thr Pro Lys Gly Asn Arg Pro Val Ile Leu
50          55          60
Thr Tyr His Asp Ile Gly Met Asn His Lys Thr Cys Tyr Asn Pro
65          70          75
Leu Phe Asn Tyr Glu Asp Met Gln Glu Ile Thr Gln His Phe Ala
80          85          90
Val Cys His Val Asp Ala Pro Gly Gln Gln Asp Gly Ala Ala Ser

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Gly Met Gly Thr Gly Ala Gly Ala Tyr Ile Leu Thr Arg Phe Ala
140 145 150
Leu Asn Asn Pro Glu Met Val Glu Gly Leu Val Leu Ile Asn Val
155 160 165
Asn Pro Cys Ala Glu Gly Trp Met Asp Trp Ala Ala Ser Lys Ile
170 175 180
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PA-0035 US

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<213> Homo sapiens

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<212> PRT

<213> Homo sapiens

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<221> misc_feature

<223> Incyte ID No: 1440032CD1

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				20					25					30
Leu	Ala	Asn	Asp	Gln	Gly	Asn	Arg	Thr	Thr	Pro	Ser	Tyr	Val	Ala
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Phe	Thr	Asp	Thr	Glu	Arg	Leu	Val	Gly	Asp	Ala	Ala	Lys	Ser	Gln
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Ala	Ala	Leu	Asn	Pro	His	Asn	Thr	Val	Phe	Asp	Ala	Lys	Arg	Leu
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Ile	Gly	Arg	Lys	Phe	Ala	Asp	Thr	Thr	Val	Gln	Ser	Asp	Met	Lys
				80					85					90
His	Trp	Pro	Phe	Arg	Val	Val	Ser	Glu	Gly	Gly	Lys	Pro	Lys	Val
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Arg	Val	Cys	Tyr	Arg	Gly	Glu	Asp	Lys	Thr	Phe	Tyr	Pro	Glu	Glu
				110					115					120
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Tyr	Leu	Gly	Gln	Pro	Val	Lys	His	Ala	Val	Ile	Thr	Val	Pro	Ala
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Tyr	Phe	Asn	Asp	Ser	Gln	Arg	Gln	Ala	Thr	Lys	Asp	Ala	Gly	Ala
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Ile	Ala	Gly	Leu	Asn	Val	Leu	Arg	Ile	Ile	Asn	Glu	Pro	Thr	Ala
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Ala	Ala	Ile	Ala	Tyr	Gly	Leu	Asp	Arg	Arg	Gly	Ala	Gly	Glu	Arg
				185					190					195
Asn	Val	Leu	Ile	Phe	Asp	Leu	Gly	Gly	Gly	Thr	Phe	Asp	Val	Ser
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Asn	His	Phe	Met	Glu	Glu	Phe	Arg	Arg	Lys	His	Gly	Lys	Asp	Leu			
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Ser	Gly	Asn	Lys	Arg	Ala	Leu	Arg	Arg	Leu	Arg	Thr	Ala	Cys	Glu			
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Arg	Ala	Lys	Arg	Thr	Pro	Ser	Ser	Ser	Thr	Gln	Ala	Thr	Leu	Glu			
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Ile	Asp	Ser	Leu	Phe	Glu	Gly	Val	Asp	Phe	Tyr	Thr	Ser	Ile	Thr			
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Arg	Ala	Arg	Phe	Glu	Glu	Leu	Cys	Ser	Asp	Leu	Phe	Arg	Ser	Thr			
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Leu	Glu	Pro	Val	Glu	Lys	Ala	Leu	Arg	Asp	Ala	Lys	Leu	Asp	Lys			
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Leu	Asn	Lys	Ser	Ile	Asn	Pro	Asp	Glu	Ala	Val	Ala	Tyr	Gly	Ala			
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Gln	Asp	Leu	Leu	Leu	Leu	Asp	Val	Ala	Pro	Leu	Ser	Leu	Gly	Leu			
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Thr	Ile	Pro	Thr	Lys	Gln	Thr	Gln	Thr	Phe	Thr	Thr	Tyr	Ser	Asp			
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Arg	Leu	Ser	Lys	Glu	Glu	Val	Glu	Arg	Met	Val	His	Glu	Ala	Glu			
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Gln	Tyr	Lys	Ala	Glu	Asp	Glu	Ala	Gln	Arg	Asp	Arg	Val	Ala	Ala			
				530					535					540			
Lys	Asn	Ser	Leu	Glu	Ala	His	Val	Phe	His	Val	Lys	Gly	Ser	Leu			
				545					550					555			
Gln	Glu	Glu	Ser	Leu	Arg	Asp	Lys	Ile	Pro	Glu	Glu	Asp	Arg	Arg			
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Lys	Met	Gln	Asp	Lys	Cys	Arg	Glu	Val	Leu	Ala	Trp	Leu	Glu	His			
				575					580					585			
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Leu	Glu	Gln	Ile	Cys	Arg	Pro	Ile	Phe	Ser	Arg	Leu	Tyr	Gly	Gly			
				605					610					615			
Pro	Gly	Val	Pro	Gly	Gly	Ser	Ser	Cys	Gly	Thr	Gln	Ala	Arg	Gln			
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				20					25					30
Pro	Lys	Asp	Lys	Ala	Ile	Asn	Lys	Phe	Ile	Ile	Gly	Asn	Thr	Val
				35					40					45
Glu	Ala	Ala	Ala	Val	Arg	Asp	Ile	Ser	Glu	Ala	Ser	Val	Phe	Asp
				50					55					60
Ala	Tyr	Val	Leu	Pro	Lys	Leu	Tyr	Leu	Lys	Leu	His	Tyr	Cys	Leu
				65					70					75
Ser	Cys	Ala	Ile	His	Ser	Lys	Val	Val	Arg	Asn	Arg	Ser	Arg	Glu
				80					85					90
Ala	Arg	Lys	Asp	Arg	Thr	Pro	Pro	Pro	Arg	Phe	Arg	Pro	Ala	Gly
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<211> 1288

<212> PRT

<213> Homo sapiens

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<223> Incyte ID No: 2507087CD1

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<400> 209

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				20					25					30
Glu	Pro	Glu	Pro	Pro	Ser	Gly	Arg	Thr	Glu	Ser	Pro	Ala	Thr	Ala
				35					40					45
Ala	Glu	Thr	Ala	Ser	Glu	Glu	Leu	Asp	Asn	Arg	Ser	Leu	Glu	Glu
				50					55					60
Ile	Leu	Asn	Ser	Ile	Pro	Pro	Pro	Pro	Pro	Pro	Ala	Met	Thr	Asn
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Glu	Ala	Gly	Ala	Pro	Arg	Leu	Met	Ile	Thr	His	Ile	Val	Asn	Gln
				80					85					90
Asn	Phe	Lys	Ser	Tyr	Ala	Gly	Glu	Lys	Ile	Leu	Gly	Pro	Phe	His
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Lys	Arg	Phe	Ser	Cys	Ile	Ile	Gly	Pro	Asn	Gly	Ser	Gly	Lys	Ser
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Lys	Ile	Arg	Ser	Lys	Lys	Leu	Ser	Val	Leu	Ile	His	Asn	Ser	Asp
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Glu	His	Lys	Asp	Ile	Gln	Ser	Cys	Thr	Val	Glu	Val	His	Phe	Gln
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Lys	Ile	Ile	Asp	Lys	Glu	Gly	Asp	Asp	Tyr	Glu	Val	Ile	Pro	Asn
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Ser	Asn	Phe	Tyr	Val	Ser	Arg	Thr	Ala	Cys	Arg	Asp	Asn	Thr	Ser
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Val	Tyr	His	Ile	Ser	Gly	Lys	Lys	Lys	Thr	Phe	Lys	Asp	Val	Gly
				200					205					210
Asn	Leu	Leu	Arg	Ser	His	Gly	Ile	Asp	Leu	Asp	His	Asn	Arg	Phe
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Leu	Ile	Leu	Gln	Gly	Glu	Val	Glu	Gln	Ile	Ala	Met	Met	Lys	Pro
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Lys	Gly	Gln	Thr	Glu	His	Asp	Glu	Gly	Met	Leu	Glu	Tyr	Leu	Glu
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Asp	Ile	Ile	Gly	Cys	Gly	Arg	Leu	Asn	Glu	Pro	Ile	Lys	Val	Leu
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Cys	Arg	Arg	Val	Glu	Ile	Leu	Asn	Glu	His	Arg	Gly	Glu	Lys	Leu
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Asn	Arg	Val	Lys	Met	Val	Glu	Lys	Glu	Lys	Asp	Ala	Leu	Glu	Gly
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Glu	Lys	Asn	Ile	Ala	Ile	Glu	Phe	Leu	Thr	Leu	Glu	Asn	Glu	Ile
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Phe	Arg	Lys	Lys	Asn	His	Val	Cys	Gln	Tyr	Tyr	Ile	Tyr	Glu	Leu
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Gln	Lys	Arg	Ile	Ala	Glu	Met	Glu	Thr	Gln	Lys	Glu	Lys	Ile	His
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Glu	Asp	Thr	Lys	Glu	Ile	Asn	Glu	Lys	Ser	Asn	Ile	Leu	Ser	Asn
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Glu	Met	Lys	Ala	Lys	Asn	Lys	Asp	Val	Lys	Asp	Thr	Glu	Lys	Lys
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Leu	Asn	Lys	Ile	Thr	Lys	Phe	Ile	Glu	Glu	Asn	Lys	Glu	Lys	Phe
				380					385					390
Thr	Gln	Leu	Asp	Leu	Glu	Asp	Val	Gln	Val	Arg	Glu	Lys	Leu	Lys
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His	Ala	Thr	Ser	Lys	Ala	Lys	Lys	Leu	Glu	Lys	Gln	Leu	Gln	Lys

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Asp Lys Glu Lys	Val Glu Glu Phe Lys	Ser Ile Pro Ala Lys	Ser		
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Asn Asn Ile Ile	Asn Glu Thr Thr Thr	Arg Asn Asn Ala Leu	Glu		
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Lys Glu Lys Glu	Lys Glu Glu Lys Lys	Leu Lys Glu Val Met	Asp		
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Ser Leu Lys Gln	Glu Thr Gln Gly Leu	Gln Lys Glu Lys Glu	Ser		
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Arg Glu Lys Glu	Leu Met Gly Phe Ser	Lys Ser Val Asn Glu	Ala		
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Arg Ser Lys Met	Asp Val Ala Gln Ser	Glu Leu Asp Ile Tyr	Leu		
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Ser Arg His Asn	Thr Ala Val Ser Gln	Leu Thr Lys Ala Lys	Glu		
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Ala Leu Ile Ala	Ala Ser Glu Thr Leu	Lys Glu Arg Lys Ala	Ala		
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Ile Arg Asp Ile	Glu Gly Lys Leu Pro	Gln Thr Glu Gln Glu	Leu		
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Lys Glu Lys Glu	Lys Glu Leu Gln Lys	Leu Thr Gln Glu Glu	Thr		
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Asn Phe Lys Ser	Leu Val His Asp Leu	Phe Gln Lys Val Glu	Glu		
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Ala Lys Ser Ser	Leu Ala Met Asn Arg	Ser Arg Gly Lys Val	Leu		
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Asp Ala Ile Ile	Gln Glu Lys Lys Ser	Gly Arg Ile Pro Gly	Ile		
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Tyr Gly Arg Leu	Gly Asp Leu Gly Ala	Ile Asp Glu Lys Tyr	Asp		
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Val Ala Ile Ser	Ser Cys Cys His Ala	Leu Asp Tyr Ile Val	Val		
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Asp Ser Ile Asp	Ile Ala Gln Glu Cys	Val Asn Phe Leu Lys	Arg		
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Gln Asn Ile Gly	Val Ala Thr Phe Ile	Gly Leu Asp Lys Met	Ala		
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Val Trp Ala Lys	Lys Met Thr Glu Ile	Gln Thr Pro Glu Asn	Thr		
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Pro Arg Leu Phe	Asp Leu Val Lys Val	Lys Asp Glu Lys Ile	Arg		
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Gln Ala Phe Tyr	Phe Ala Leu Arg Asp	Thr Leu Val Ala Asp	Asn		
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Leu Asp Gln Ala	Thr Arg Val Ala Tyr	Gln Lys Asp Arg Arg	Trp		
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Arg Val Val Thr	Leu Gln Gly Gln Ile	Ile Glu Gln Ser Gly	Thr		
	740		745		750
Met Thr Gly Gly	Gly Ser Lys Val Met	Lys Gly Arg Met Gly	Ser		
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Ser Leu Val Ile	Glu Ile Ser Glu Glu	Glu Val Asn Lys Met	Glu		
	770		775		780
Ser Gln Leu Gln	Asn Asp Ser Lys Lys	Ala Met Gln Ile Gln	Glu		
	785		790		795
Gln Lys Val Gln	Leu Glu Glu Arg Val	Val Lys Leu Arg His	Ser		
	800		805		810
Glu Arg Glu Met	Arg Asn Thr Leu Glu	Lys Phe Thr Ala Ser	Ile		
	815		820		825
Gln Arg Leu Ile	Glu Gln Glu Glu Tyr	Leu Asn Val Gln Val	Lys		

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Glu Leu Glu Ala	Asn Val Leu Ala Thr	Ala Pro Asp Lys Lys Lys			
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Gln Lys Leu Leu	Glu Glu Asn Val Ser	Ala Phe Lys Thr Glu Tyr			
	860		865		870
Asp Ala Val Ala	Glu Lys Ala Gly Lys	Val Glu Ala Glu Val Lys			
	875		880		885
Arg Leu His Asn	Thr Ile Val Glu Ile	Asn Asn His Lys Leu Lys			
	890		895		900
Ala Gln Gln Asp	Lys Leu Asp Lys Ile	Asn Lys Gln Leu Asp Glu			
	905		910		915
Cys Ala Ser Ala	Ile Thr Lys Ala Gln	Val Ala Ile Lys Thr Ala			
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Asp Arg Asn Leu	Gln Lys Ala Gln Asp	Ser Val Leu Arg Thr Glu			
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Lys Glu Ile Lys	Asp Thr Glu Lys Glu	Val Asp Asp Leu Thr Ala			
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Glu Leu Lys Ser	Leu Glu Asp Lys Ala	Glu Val Val Lys Asn			
	965		970		975
Thr Asn Ala Ala	Glu Glu Ser Leu Pro	Glu Ile Gln Lys Glu His			
	980		985		990
Arg Asn Leu Leu	Gln Glu Leu Lys Val	Ile Gln Glu Asn Glu His			
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Ala Leu Gln Lys	Asp Ala Leu Ser Ile	Lys Leu Lys Leu Glu Gln			
	1010		1015		1020
Ile Asp Gly His	Ile Ala Glu His Asn	Ser Lys Ile Lys Tyr Trp			
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His Lys Glu Ile	Ser Lys Ile Ser Leu	His Pro Ile Glu Asp Asn			
	1040		1045		1050
Pro Ile Glu Glu	Ile Ser Val Leu Ser	Pro Glu Asp Leu Glu Ala			
	1055		1060		1065
Ile Lys Asn Pro	Asp Ser Ile Thr Asn	Gln Ile Ala Leu Leu Glu			
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Ala Arg Cys His	Glu Met Lys Pro Asn	Leu Gly Ala Ile Ala Glu			
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Tyr Lys Lys Lys	Glu Glu Leu Tyr Leu	Gln Arg Val Ala Glu Leu			
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Asp Lys Ile Thr	Tyr Glu Arg Asp Ser	Phe Arg Gln Ala Tyr Glu			
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Asp Leu Arg Lys	Gln Arg Leu Asn Glu	Phe Met Ala Gly Phe Tyr			
	1130		1135		1140
Ile Ile Thr Asn	Lys Leu Lys Glu Asn	Tyr Gln Met Leu Thr Leu			
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Gly Gly Asp Ala	Glu Leu Glu Leu Val	Asp Ser Leu Asp Pro Phe			
	1160		1165		1170
Ser Glu Gly Ile	Met Phe Ser Val Arg	Pro Pro Lys Lys Ser Trp			
	1175		1180		1185
Lys Lys Ile Phe	Asn Leu Ser Gly Gly	Glu Lys Thr Leu Ser Ser			
	1190		1195		1200
Leu Ala Leu Val	Phe Ala Leu His His	Tyr Lys Pro Thr Pro Leu			
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Tyr Phe Met Asp	Glu Ile Asp Ala Ala	Leu Asp Phe Lys Asn Val			
	1220		1225		1230
Ser Ile Val Ala	Phe Tyr Ile Tyr Glu	Gln Thr Lys Asn Ala Gln			
	1235		1240		1245
Phe Ile Ile Ile	Ser Leu Arg Asn Asn	Met Phe Glu Ile Ser Asp			

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	1250		1255		1260									
Arg	Leu	Ile	Gly	Ile	Tyr	Lys	Thr	Tyr	Asn	Ile	Thr	Lys	Ser	Val
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<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 239996.1

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<222> 26, 32, 892, 908, 918

<223> a, t, c, g, or other

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212

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 <212> DNA
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 <223> Incyte ID No: 021524.9

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 <221> unsure
 <222> 3017, 3021
 <223> a, t, c, g, or other

<400> 213

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<211> 990

<212> DNA

PA-0035 US

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1720847CB1

<400> 224

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<211> 90

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1720847CD1

<400> 225

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Ala Pro Leu Phe Lys Gly Leu Ala Gly Ser Leu Pro Phe Gly Cys
          35          40          45
Leu Ser Leu Leu Gln Pro Thr Glu Lys Thr Ala Leu Gln Arg Trp
          50          55          60
Arg Val Phe Met His Ser Cys Gln Glu Pro Arg His Arg Ala
          65          70          75
Gly Gly Leu Glu Lys Gly Gly His Thr Gly Gly Gly Arg Ser Trp
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<210> 226

<211> 201

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 333776.1c

PA-0035 US

<220>

<221> unsure

<222> 27, 43

<223> a, t, c, g, or other

<400> 226

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<210> 227

<211> 1278

<212> DNA

<213> Homo sapiens

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<221> misc_feature

<223> Incyte ID No: 3478236CB1

<400> 227

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<210> 228

<211> 252

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3478236CD1

<400> 228

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1          5          10          15
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PA-0035 US

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Asp Thr Tyr Ser Gly Lys Arg Glu Pro Phe Ser Gly Asp His Ser
35 40 45
Ala Asp Gly Phe Glu Val Thr Ser Arg Ser Glu Met Ser Ser Gly
50 55 60
Ser Glu Ile Ser Pro Val Ser Glu Met Pro Ser Ser Ser Glu Pro
65 70 75
Ser Ser Gly Ala Asp Tyr Asp Tyr Ser Glu Glu Tyr Asp Asn Glu
80 85 90
Pro Gln Ile Pro Gly Tyr Ile Val Asp Asp Ser Val Arg Val Glu
95 100 105
Gln Val Val Lys Pro Pro Gln Asn Lys Thr Glu Ser Glu Asn Thr
110 115 120
Ser Asp Lys Pro Lys Arg Lys Lys Lys Gly Gly Lys Asn Gly Lys
125 130 135
Asn Arg Arg Asn Arg Lys Lys Lys Asn Pro Cys Asn Ala Glu Phe
140 145 150
Gln Asn Phe Cys Ile His Gly Glu Cys Lys Tyr Ile Glu His Leu
155 160 165
Glu Ala Val Thr Cys Lys Cys Gln Gln Glu Tyr Phe Gly Glu Arg
170 175 180
Cys Gly Glu Lys Ser Met Lys Thr His Ser Met Ile Asp Ser Ser
185 190 195
Leu Ser Lys Ile Ala Leu Ala Ala Ile Ala Ala Phe Met Ser Ala
200 205 210
Val Ile Leu Thr Ala Val Ala Val Ile Thr Val Gln Leu Arg Arg
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<210> 229

<211> 5060

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 147541.17

<220>

<221> unsure

<222> 1806-1826

<223> a, t, c, g, or other

<400> 229

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<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1989186CB1

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<223> Incyte ID No: 1989186CD1

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Cys Ser Glu Ser Ala Ser Gln Asn Asp Asp Gly Ser Arg Ser Lys
50 55 60
Asp Glu Thr Arg Val Ser Thr Asn Gly Ser Asp Asp Pro Glu Asp
65 70 75
Ala Gly Ala Gly Glu Asn Arg Arg Val Ser Gly Asn Asn Ser Pro
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Ser Leu Ser Asn Gly Gly Phe Lys Pro Ser Arg Pro Pro Arg Pro
95 100 105
Ser Arg Pro Pro Pro Pro Thr Pro Arg Arg Pro Ala Ser Val Asn
110 115 120
Gly Ser Pro Ser Ala Thr Ser Glu Ser Asp Gly Ser Ser Thr Gly
125 130 135
Ser Leu Pro Pro Thr Asn Thr Asn Thr Asn Thr Ser Glu Gly Ala
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Thr Ser Gly Leu Ile Ile Pro Leu Thr Ile Ser Gly Gly Ser Gly
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Pro Arg Pro Leu Asn Pro Val Thr Gln Ala Pro Leu Pro Pro Gly
170 175 180
Trp Glu Gln Arg Val Asp Gln His Gly Arg Val Tyr Tyr Val Asp
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His Val Glu Lys Arg Thr Thr Trp Asp Arg Pro Glu Pro Leu Pro
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Pro Gly Trp Glu Arg Arg Val Asp Asn Met Gly Arg Ile Tyr Tyr
215 220 225
Val Asp His Phe Thr Arg Thr Thr Thr Trp Gln Arg Pro Thr Leu
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Asn Gln Asp Leu Phe Ala Thr Ser Gln Ser Lys Glu Phe Asp Pro
275 280 285
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Gly Arg Val Tyr Phe Val Asn His Asn Thr Arg Ile Thr Gln Trp
305 310 315
Glu Asp Pro Arg Ser Gln Gly Gln Leu Asn Glu Lys Pro Leu Pro

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Val Asp His Asn	Arg Arg Thr Thr Thr	Tyr Ile Asp Pro Arg Thr			
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Gly Lys Ser Ala	Leu Asp Asn Gly Pro	Gln Ile Ala Tyr Val Arg			
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Asp Phe Lys Ala	Lys Val Gln Tyr Phe	Arg Phe Trp Cys Gln Gln			
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Leu Ala Met Pro	Gln His Ile Lys Ile	Thr Val Thr Arg Lys Thr			
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Asp Leu Arg Arg	Arg Leu Trp Val Ile	Phe Pro Gly Glu Glu Gly			
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Leu Asp Tyr Gly	Gly Val Ala Arg Glu	Trp Phe Phe Leu Leu Ser			
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His Glu Val Leu	Asn Pro Met Tyr Cys	Leu Phe Glu Tyr Ala Gly			
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Lys Asp Asn Tyr	Cys Leu Gln Ile Asn	Pro Ala Ser Tyr Ile Asn			
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Pro Asp His Leu	Lys Tyr Phe Arg Phe	Ile Gly Arg Phe Ile Ala			
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Met Ala Leu Phe	His Gly Lys Phe Ile	Asp Thr Gly Phe Ser Leu			
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Pro Phe Tyr Lys	Arg Ile Leu Asn Lys	Pro Val Gly Leu Lys Asp			
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Val Asp Lys Glu	Ile Leu Gly Glu Ile	Lys Ser His Asp Leu Lys			
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Tyr Ile Arg Met	Val Ala Glu Trp Arg	Leu Ser Arg Gly Val Glu			
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Glu Gln Thr Gln	Ala Phe Phe Glu Gly	Phe Asn Glu Ile Leu Pro			
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Ala Ile Tyr Arg	His Tyr Ala Arg Thr	Ser Lys Gln Ile Met Trp			
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Phe Trp Gln Phe	Val Lys Glu Ile Asp	Asn Glu Lys Arg Met Arg			
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Phe Ala Asp Leu	Met Gly Ser Asn Gly	Pro Gln Lys Phe Cys Ile			
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Glu Lys Val Gly	Lys Glu Asn Trp Leu	Pro Arg Ser His Thr Cys			
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Phe Asn Arg Leu	Asp Leu Pro Pro Tyr	Lys Ser Tyr Glu Gln Leu			
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<212> DNA

<213> Homo sapiens

<221> misc feature

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241

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<211> 3685

<212> DNA

<213> Homo sapiens

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<223> a, t, c, g, or other

<400> 240

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<210> 241
 <211> 538
 <212> DNA
 <213> Homo sapiens

<220>

PA-0035 US

<221> misc_feature

<223> Incyte ID No: 697785CB1

<400> 241

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<210> 242

<211> 135

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 697785CD1

<400> 242

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          20          25          30
Phe Val Leu Asn Leu Gly Lys Asp Ser Asn Asn Leu Cys Leu His
          35          40          45
Phe Asn Pro Arg Phe Asn Ala His Gly Asp Ala Asn Thr Ile Val
          50          55          60
Cys Asn Ser Lys Asp Gly Gly Ala Trp Gly Thr Glu Gln Arg Glu
          65          70          75
Ala Val Phe Pro Phe Gln Pro Gly Ser Val Ala Glu Val Cys Ile
          80          85          90
Thr Phe Asp Gln Ala Asn Leu Thr Val Lys Leu Pro Asp Gly Tyr
          95          100          105
Glu Phe Lys Phe Pro Asn Arg Leu Asn Leu Glu Ala Ile Asn Tyr
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<210> 243

<211> 3763

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 346209.3

<400> 243

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PA-0035 US

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<210> 244

<211> 473

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 167772CB1

<400> 244

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<210> 245

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 167772CD1

<400> 245

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Ala	Gly	Ser	Cys	Lys	Cys	Lys	Glu	Cys	Lys	Cys	Thr	Ser	Cys	Lys
				20					25					30
Lys	Ser	Cys	Cys	Ser	Cys	Cys	Pro	Val	Gly	Cys	Ala	Lys	Cys	Ala
				35					40					45
Gln	Gly	Cys	Ile	Cys	Lys	Gly	Thr	Ser	Asp	Lys	Cys	Ser	Cys	Cys
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Ala

<210> 246

<211> 1291

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2514988CB1

<220>

<221> unsure

<222> 46

<400> 246						
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<220>
<221> misc_feature
<223> Incyte ID No: 2514988CD1
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248

PA-0035 US

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	170	175	180
Gln Ala Gly Ala	Arg Glu Gly Ala Glu	Arg Gly Leu Ser Ala	Ile
	185	190	195
Arg Glu Arg Leu	Gly Pro Leu Val Glu	Gln Gly Arg Val Arg	Ala
	200	205	210
Ala Thr Val Gly	Ser Leu Ala Gly Gln	Pro Leu Gln Glu Arg	Ala
	215	220	225
Gln Ala Trp Gly	Glu Arg Leu Arg Ala	Arg Met Glu Glu Met	Gly
	230	235	240
Ser Arg Thr Arg	Asp Arg Leu Asp Glu	Val Lys Glu Gln Val	Ala
	245	250	255
Glu Val Arg Ala	Lys Leu Glu Glu Gln	Ala Gln Gln Ile Arg	Leu
	260	265	270
Gln Ala Glu Ala	Phe Gln Ala Arg Leu	Lys Ser Trp Phe Glu	Pro
	275	280	285
Leu Val Glu Asp	Met Gln Arg Gln Trp	Ala Gly Leu Val Glu	Lys
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Asn

<210> 248

<211> 857

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 481231.16

<400> 248

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<210> 249

<211> 2310

<212> DNA

<213> Homo sapiens

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PA-0035 US

<221> misc_feature

<223> Incyte ID No: 481231.17

<400> 249

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<213> Homo sapiens

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<223> a, t, c, g, or other

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<210> 255

<211> 233

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1053517.1

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<221> unsure

<222> 69

<223> a, t, c, g, or other

<400> 255

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agtgtgagca gcctgttgat ggagaaatcc caacttgccc aggaagtcct tcccaacttc 180
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<210> 256

<211> 2622

<212> DNA

<213> Homo sapiens

<220>

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<223> Incyte ID No: 480169.76

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ccacccgagg atggcatctc ctccgtgaag ttcagcccca acacctccca gttcctgctt 180
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<210> 257

<211> 1002

<212> DNA

<213> Homo sapiens

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<221> misc_feature

<223> Incyte ID No: 2636043CB1

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PA-0035 US

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<210> 258

<211> 205

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2636043CD1

<400> 258

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Thr Ser Ser Ser Gln Gly Gly Leu Gly Gly Leu Ser Leu Thr Thr
35 40 45
Glu Pro Val Ser Ser Asn Pro Gly Tyr Ile Pro Ser Ser Glu Ala
50 55 60
Asn Arg Pro Ser His Leu Ser Ser Thr Gly Thr Pro Gly Ala Gly
65 70 75
Val Pro Ser Ser Gly Arg Asp Gly Gly Thr Ser Arg Asp Thr Phe
80 85 90
Gln Thr Val Pro Pro Asn Ser Thr Thr Met Ser Leu Ser Met Arg
95 100 105
Glu Asp Ala Thr Ile Leu Pro Ser Pro Thr Ser Glu Thr Val Leu
110 115 120
Thr Val Ala Ala Phe Gly Val Ile Ser Phe Ile Val Ile Leu Val
125 130 135
Val Val Val Ile Ile Leu Val Gly Val Val Ser Leu Arg Phe Lys
140 145 150
Cys Arg Lys Ser Lys Glu Ser Glu Asp Pro Gln Lys Pro Gly Ser
155 160 165
Ser Gly Leu Ser Glu Ser Cys Ser Thr Ala Asn Gly Glu Lys Asp
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<211> 2539

<212> DNA

PA-0035 US

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2993696CB1

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<210> 260

<211> 654

<212> PRT

<213> Homo sapiens

PA-0035 US

<220>

<221> misc_feature

<223> Incyte ID No: 2993696CD1

<400> 260

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Val	Gly	Ile	Asp	Leu	Gly	Thr	Thr	Tyr	Ser	Cys	Val	Gly	Val	Phe
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Lys	Asn	Gly	Arg	Val	Glu	Ile	Ile	Ala	Asn	Asp	Gln	Gly	Asn	Arg
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Ile	Thr	Pro	Ser	Tyr	Val	Ala	Phe	Thr	Pro	Glu	Gly	Glu	Arg	Leu
				65					70					75
Ile	Gly	Asp	Ala	Ala	Lys	Asn	Gln	Leu	Thr	Ser	Asn	Pro	Glu	Asn
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Thr	Val	Phe	Asp	Ala	Lys	Arg	Leu	Ile	Gly	Arg	Thr	Trp	Asn	Asp
				95					100					105
Pro	Ser	Val	Gln	Gln	Asp	Ile	Lys	Phe	Leu	Pro	Phe	Lys	Val	Val
				110					115					120
Glu	Lys	Lys	Thr	Lys	Pro	Tyr	Ile	Gln	Val	Asp	Ile	Gly	Gly	Gly
				125					130					135
Gln	Thr	Lys	Thr	Phe	Ala	Pro	Glu	Glu	Ile	Ser	Ala	Met	Val	Leu
				140					145					150
Thr	Lys	Met	Lys	Glu	Thr	Ala	Glu	Ala	Tyr	Leu	Gly	Lys	Lys	Val
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Thr	His	Ala	Val	Val	Thr	Val	Pro	Ala	Tyr	Phe	Asn	Asp	Ala	Gln
				170					175					180
Arg	Gln	Ala	Thr	Lys	Asp	Ala	Gly	Thr	Ile	Ala	Gly	Leu	Asn	Val
				185					190					195
Met	Arg	Ile	Ile	Asn	Glu	Pro	Thr	Ala	Ala	Ala	Ile	Ala	Tyr	Gly
				200					205					210
Leu	Asp	Lys	Arg	Glu	Gly	Glu	Lys	Asn	Ile	Leu	Val	Phe	Asp	Leu
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Gly	Gly	Gly	Thr	Phe	Asp	Val	Ser	Leu	Leu	Thr	Ile	Asp	Asn	Gly
				230					235					240
Val	Phe	Glu	Val	Val	Ala	Thr	Asn	Gly	Asp	Thr	His	Leu	Gly	Gly
				245					250					255
Glu	Asp	Phe	Asp	Gln	Arg	Val	Met	Glu	His	Phe	Ile	Lys	Leu	Tyr
				260					265					270
Lys	Lys	Lys	Thr	Gly	Lys	Asp	Val	Arg	Lys	Asp	Asn	Arg	Ala	Val
				275					280					285
Gln	Lys	Leu	Arg	Arg	Glu	Val	Glu	Lys	Ala	Lys	Arg	Ala	Leu	Ser
				290					295					300
Ser	Gln	His	Gln	Ala	Arg	Ile	Glu	Ile	Glu	Ser	Phe	Tyr	Glu	Gly
				305					310					315
Glu	Asp	Phe	Ser	Glu	Thr	Leu	Thr	Arg	Ala	Lys	Phe	Glu	Glu	Leu
				320					325					330
Asn	Met	Asp	Leu	Phe	Arg	Ser	Thr	Met	Lys	Pro	Val	Gln	Lys	Val
				335					340					345
Leu	Glu	Asp	Ser	Asp	Leu	Lys	Lys	Ser	Asp	Ile	Asp	Glu	Ile	Val
				350					355					360
Leu	Val	Gly	Gly	Ser	Thr	Arg	Ile	Pro	Lys	Ile	Gln	Gln	Leu	Val
				365					370					375
Lys	Glu	Phe	Phe	Asn	Gly	Lys	Glu	Pro	Ser	Arg	Gly	Ile	Asn	Pro

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380 385 390
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395 400 405
Ser Gly Asp Gln Asp Thr Gly Asp Leu Val Leu Leu Asp Val Cys
410 415 420
Pro Leu Thr Leu Gly Ile Glu Thr Val Gly Gly Val Met Thr Lys
425 430 435
Leu Ile Pro Arg Asn Thr Val Val Pro Thr Lys Lys Ser Gln Ile
440 445 450
Phe Ser Thr Ala Ser Asp Asn Gln Pro Thr Val Thr Ile Lys Val
455 460 465
Tyr Glu Gly Glu Arg Pro Leu Thr Lys Asp Asn His Leu Leu Gly
470 475 480
Thr Phe Asp Leu Thr Gly Ile Pro Pro Ala Pro Arg Gly Val Pro
485 490 495
Gln Ile Glu Val Thr Phe Glu Ile Asp Val Asn Gly Ile Leu Arg
500 505 510
Val Thr Ala Glu Asp Lys Gly Thr Gly Asn Lys Asn Lys Ile Thr
515 520 525
Ile Thr Asn Asp Gln Asn Arg Leu Thr Pro Glu Glu Ile Glu Arg
530 535 540
Met Val Asn Asp Ala Glu Lys Phe Ala Glu Glu Asp Lys Lys Leu
545 550 555
Lys Glu Arg Ile Asp Thr Arg Asn Glu Leu Glu Ser Tyr Ala Tyr
560 565 570
Ser Leu Lys Asn Gln Ile Gly Asp Lys Glu Lys Leu Gly Gly Lys
575 580 585
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Lys Ile Glu Trp Leu Glu Ser His Gln Asp Ala Asp Ile Glu Asp
605 610 615
Phe Lys Ala Lys Lys Lys Glu Leu Glu Glu Ile Val Gln Pro Ile
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<210> 261

<211> 674

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 240518.21

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<223> a, t, c, g, or other

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<210> 262

<211> 2015

<212> DNA

<213> Homo sapiens

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<220>

<221> unsure

<222> 748

<223> a, t, c, g, or other

<400> 262

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<210> 263
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<212> DNA
<213> Homo sapiens
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<223> Incyte ID No: 001322.4c
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<221> unsure
<222> 167-332
<223> a, t, c, g, or other
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262

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<210> 264

<211> 552

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 350502.3

<400> 264

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PA-0035 US

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<211> 1016
<212> DNA
<213> Homo sapiens

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<221> misc_feature
<223> Incyte ID No: 350502.4c

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<210> 266
<211> 1843
<212> DNA
<213> Homo sapiens

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<221> misc_feature
<223> Incyte ID No: 253783.3

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<221> unsure
<222> 1824
<223> a, t, c, g, or other

<400> 266
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PA-0035 US

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<211> 869

<212> DNA

<213> Homo sapiens

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<220>

<221> unsure

<222> 847

<223> a, t, c, g, or other

<400> 267

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<211> 5687

<212> DNA

PA-0035 US

<213> Homo sapiens

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<222> 4850-5163

<223> a, t, c, g, or other

<400> 268

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<212> DNA

<213> Homo sapiens

PA-0035 US

<220>

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<223> Incyte ID No: 4113161CB1

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<210> 270

<211> 544

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 4113161CD1

<400> 270

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269

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Thr	Gln	Gly	Pro	440	Tyr	Asp	Phe	Gly	Ser	445	Gly	Glu	Thr	Ala	Arg	Arg	450
				455						460							465
Ile	Gln	Asp	Leu	470	Ile	Pro	Val	Leu	Leu	475	Arg	His	Arg	Leu	Cys	Pro	480
Pro	Pro	Glu	Glu	485	Thr	Tyr	Ala	Leu	His	490	Arg	Lys	Leu	Ala	Gly	Ala	495
Phe	Leu	Ala	Cys	500	Ala	His	Leu	Arg	Ala	505	His	Ile	Ala	Cys	Arg	Asp	510
Leu	Phe	Gln	Asp	515	Thr	Tyr	His	Arg	Tyr	520	Trp	Ala	Ser	Arg	Gln	Pro	525
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<210> 271
<211> 442
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 2757583CB1

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gctcctgcgc cgctgggtgc tcctgcacct gcgctggttc ctgcaagtgc aaagagtgc 180
aatgcacctc ctgcaagaag agctgctgct cctgctgccc cgtgggctgt agcaagtgtg 240
cccagggctg tgtttgcaaa ggggcgtcag agaagtgcag ctgctgcgac tgatgccagg 300
acaacctttc tcccagatgt aaacagagag acatgtacaa acctggattt tttttttata 360
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<210> 272
<211> 61
<212> PRT
<213> Homo sapiens

<220>
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<223> Incyte ID No: 2757583CD1

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Lys Ser Cys Cys Ser Cys Cys Pro Val Gly Cys Ser Lys Cys Ala
35 40 45
Gln Gly Cys Val Cys Lys Gly Ala Ser Glu Lys Cys Ser Cys Cys
50 55 60
Asp

<210> 273
<211> 1077

PA-0035 US

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 198317.1

<220>
<221> unsure
<222> 935, 943, 945, 947, 951
<223> a, t, c, g, or other

<400> 273
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ggtgcaacaa atactactga tgaaagcacc agtgtttggtg acaaacatct ccctatccca 240
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tccggggccag gtccctgccca cagtcttcgg acatcactgc agtgtcttca acgtgggcttt 360
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ataatattct caccagaaac agatgtggaa gtggcagccc gtgtttacag tttctcattt 540
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<210> 274
<211> 3282
<212> DNA
<213> Homo sapiens

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<221> misc_feature
<223> Incyte ID No: 1508254CB1

<220>
<221> unsure
<222> 3130
<223> a, t, c, g, or other

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gcggcaggat gattgcctcg catctgcttg cctacttctt cacggagctc aaccatgacc 180
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ctgcagcagt gaagatgctg cccacctttg tgaggtccac tccagatggg acagaacacg 360
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cggacaattg gctccagaag gtggagatgg agaatcagat ctatgccatc cctgaggaca 480
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<210> 275

<211> 917

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1508254CD1

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<400> 275

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				20					25					30
Leu	Ser	Asp	Glu	Thr	Leu	Leu	Glu	Ile	Ser	Lys	Arg	Phe	Arg	Lys
				35					40					45
Glu	Met	Glu	Lys	Gly	Leu	Gly	Ala	Thr	Thr	His	Pro	Thr	Ala	Ala
				50					55					60
Val	Lys	Met	Leu	Pro	Thr	Phe	Val	Arg	Ser	Thr	Pro	Asp	Gly	Thr
				65					70					75
Glu	His	Gly	Glu	Phe	Leu	Ala	Leu	Asp	Leu	Gly	Gly	Thr	Asn	Phe
				80					85					90
Arg	Val	Leu	Trp	Val	Lys	Val	Thr	Asp	Asn	Gly	Leu	Gln	Lys	Val
				95					100					105
Glu	Met	Glu	Asn	Gln	Ile	Tyr	Ala	Ile	Pro	Glu	Asp	Ile	Met	Arg
				110					115					120
Gly	Ser	Gly	Thr	Gln	Leu	Phe	Asp	His	Ile	Ala	Glu	Cys	Leu	Ala
				125					130					135
Asn	Phe	Met	Asp	Lys	Leu	Gln	Ile	Lys	Asp	Lys	Lys	Leu	Pro	Leu
				140					145					150
Gly	Phe	Thr	Phe	Ser	Phe	Pro	Cys	His	Gln	Thr	Lys	Leu	Asp	Glu
				155					160					165
Ser	Phe	Leu	Val	Ser	Trp	Thr	Lys	Gly	Phe	Lys	Ser	Ser	Gly	Val
				170					175					180
Glu	Gly	Arg	Asp	Val	Val	Ala	Leu	Ile	Arg	Lys	Ala	Ile	Gln	Arg
				185					190					195
Arg	Gly	Asp	Phe	Asp	Ile	Asp	Ile	Val	Ala	Val	Val	Asn	Asp	Thr
				200					205					210
Val	Gly	Thr	Met	Met	Thr	Cys	Gly	Tyr	Asp	Asp	His	Asn	Cys	Glu
				215					220					225
Ile	Gly	Leu	Ile	Val	Gly	Thr	Gly	Ser	Asn	Ala	Cys	Tyr	Met	Glu
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Glu	Met	Arg	His	Ile	Asp	Met	Val	Glu	Gly	Asp	Glu	Gly	Arg	Met
				245					250					255
Cys	Ile	Asn	Met	Glu	Trp	Gly	Ala	Phe	Gly	Asp	Asp	Gly	Ser	Leu
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Asn	Asp	Ile	Arg	Thr	Glu	Phe	Asp	Gln	Glu	Ile	Asp	Met	Gly	Ser
				275					280					285
Leu	Asn	Pro	Gly	Lys	Gln	Leu	Phe	Glu	Lys	Met	Ile	Ser	Gly	Met
				290					295					300
Tyr	Met	Gly	Glu	Leu	Val	Arg	Leu	Ile	Leu	Val	Lys	Met	Ala	Lys
				305					310					315
Glu	Glu	Leu	Leu	Phe	Gly	Gly	Lys	Leu	Ser	Pro	Glu	Leu	Leu	Asn
				320					325					330
Thr	Gly	Arg	Phe	Glu	Thr	Lys	Asp	Ile	Ser	Asp	Ile	Glu	Gly	Glu
				335					340					345
Lys	Asp	Gly	Ile	Arg	Lys	Ala	Arg	Glu	Val	Leu	Met	Arg	Leu	Gly
				350					355					360
Leu	Asp	Pro	Thr	Gln	Glu	Asp	Cys	Val	Ala	Thr	His	Arg	Ile	Cys
				365					370					375
Gln	Ile	Val	Ser	Thr	Arg	Ser	Ala	Ser	Leu	Cys	Ala	Ala	Thr	Leu
				380					385					390
Ala	Ala	Val	Leu	Gln	Arg	Ile	Lys	Glu	Asn	Lys	Gly	Glu	Glu	Arg
				395					400					405
Leu	Arg	Ser	Thr	Ile	Gly	Val	Asp	Gly	Ser	Val	Tyr	Lys	Lys	His

Pro His Phe Ala	410	Lys Arg Leu His Lys	415	Thr Val Arg Arg Leu Val	420
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Pro Gly Cys Asp	440	Val Arg Phe Leu Arg	445	Ser Glu Asp Gly Ser Gly	450
	455		460		465
Lys Gly Ala Ala	470	Met Val Thr Ala Val	475	Ala Tyr Arg Leu Ala Asp	480
	485		490		495
Gln His Arg Ala	500	Arg Gln Lys Thr Leu	505	Glu His Leu Gln Leu Ser	510
	515		520		525
His Asp Gln Leu	530	Leu Glu Val Lys Arg	535	Arg Met Lys Val Glu Met	540
	545		550		555
Glu Arg Gly Leu	560	Ser Lys Glu Thr His	565	Ala Ser Ala Pro Val Lys	570
	575		580		585
Met Leu Pro Thr	590	Tyr Val Cys Ala Thr	595	Pro Asp Gly Thr Glu Lys	600
	605		610		615
Gly Asp Phe Leu	620	Ala Leu Asp Leu Gly	625	Gly Thr Asn Phe Arg Val	630
	635		640		645
Leu Leu Val Arg	650	Val Arg Asn Gly Lys	655	Trp Gly Gly Val Glu Met	660
	665		670		675
His Asn Lys Ile	680	Tyr Ala Ile Pro Gln	685	Glu Val Met His Gly Thr	690
	695		700		705
Gly Asp Glu Leu	710	Phe Asp His Ile Val	715	Gln Cys Ile Ala Asp Phe	720
	725		730		735
Leu Glu Tyr Met	740	Gly Met Lys Gly Val	745	Ser Leu Pro Leu Gly Phe	750
	755		760		765
Thr Phe Ser Phe	770	Pro Cys Gln Gln Asn	775	Ser Leu Asp Glu Ser Ile	780
	785		790		795
Leu Leu Lys Trp	800	Thr Lys Gly Phe Lys	805	Ala Ser Gly Cys Glu Gly	810
	815		820		825
Glu Asp Val Val	825	Thr Leu Leu Lys Glu	830	Ala Ile His Arg Arg Glu	835
	840		845		850
Glu Phe Asp Leu	855	Asp Val Val Ala Val	860	Val Asn Asp Thr Val Gly	865
	870		875		880
Thr Met Met Thr	885	Cys Gly Phe Glu Asp	890	Pro His Cys Glu Val Gly	895
	900		905		910
Leu Ile Val Gly	915	Thr Gly Ser Asn Ala	920	Cys Tyr Met Glu Glu Met	925
	930		935		940
Arg Asn Val Glu	945	Leu Val Glu Gly Glu	950	Glu Gly Arg Met Cys Val	955
	960		965		970
Asn Met Glu Trp	975	Gly Ala Phe Gly Asp	980	Asn Gly Cys Leu Asp Asp	985
	990		995		1000
Phe Arg Thr Glu	1005	Phe Asp Val Ala Val	1010	Asp Glu Leu Ser Leu Asn	1015
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Pro Gly Lys Gln	1035	Arg Phe Glu Lys Met	1040	Ile Ser Gly Met Tyr Leu	1045
	1050		1055		1060
Gly Glu Ile Val	1065	Arg Asn Ile Leu Ile	1070	Asp Phe Thr Lys Arg Gly	1075
	1080		1085		1090
Leu Leu Phe Arg	1095	Gly Arg Ile Ser Glu	1100	Arg Leu Lys Thr Arg Gly	1105
	1110		1115		1120
Ile Phe Glu Thr	1125	Lys Phe Leu Ser Gln	1130	Ile Glu Ser Asp Cys Leu	1135
	1140		1145		1150
Ala Leu Leu Gln	1155	Val Arg Ala Ile Leu	1160	Gln His Leu Gly Leu Glu	1165
	1170		1175		1180
Ser Thr Cys Asp	1185	Asp Ser Ile Ile Val	1190	Lys Glu Val Cys Thr Val	1195
	1200		1205		1210
Val Ala Arg Arg	1215	Ala Ala Gln Leu Cys	1220	Gly Ala Gly Met Ala Ala	1225

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	830		835		840
Val Val Asp Arg	Ile Arg Glu Asn Arg	Gly Leu Asp Ala Leu	Lys		
	845		850		855
Val Thr Val Gly	Val Asp Gly Thr Leu	Tyr Lys Leu His Pro	His		
	860		865		870
Phe Ala Lys Val	Met His Glu Thr Val	Lys Asp Leu Ala Pro	Lys		
	875		880		885
Cys Asp Val Ser	Phe Leu Gln Ser Glu	Asp Gly Ser Gly Lys	Gly		
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Ala Ala Leu Ile	Thr Ala Val Ala Cys	Arg Ile Arg Glu Ala	Gly		
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Gln Arg

<210> 276

<211> 4350

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 474691.3

<220>

<221> unsure

<222> 1508, 3344-3346, 3348, 3365, 3368, 3371-3372

<223> a, t, c, g, or other

<400> 276

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gcccagctgc	caggaccacc	ccaggacaag	ttagagcact	gtttagctcc	tttgtctgtg	240
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gcttcaaagt	ttaccgtcta	gttagat	tatttaaaat	atgaaaaact	gcttttccca	360
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<213> Homo sapiens

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PA-0035 US

<221> unsure

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<223> a, t, c, g, or other

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<211> 1205

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 1040190.3

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<211> 247

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<212> PRT

<213> Homo sapiens

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<223> Incyte ID No: 1427459CD1

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<212> DNA

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<221> unsure

<222> 322-339

<223> a, t, c, g, or other

<400> 286

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PA-0035 US

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PA-0035 US

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<223> a, t, c, g, or other

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PA-0035 US

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35 40 45
Pro Gly Gln Ala Pro Pro Gly Ala Tyr Pro Gly Gln Ala Pro Pro
50 55 60
Gly Ala Tyr His Gly Ala Pro Gly Ala Tyr Pro Gly Ala Pro Ala
65 70 75
Pro Gly Val Tyr Pro Gly Pro Pro Ser Gly Pro Gly Ala Tyr Pro
80 85 90
Ser Ser Gly Gln Pro Ser Ala Pro Gly Ala Tyr Pro Ala Thr Gly
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Pro Tyr Gly Ala Pro Ala Gly Pro Leu Ile Val Pro Tyr Asn Leu
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Pro Leu Pro Gly Gly Val Val Pro Arg Met Leu Ile Thr Ile Leu
125 130 135
Gly Thr Val Lys Pro Asn Ala Asn Arg Ile Ala Leu Asp Phe Gln
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Arg Gly Asn Asp Val Ala Phe His Phe Asn Pro Arg Phe Asn Glu
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Trp Gly Arg Glu Glu Arg Gln Ser Val Phe Pro Phe Glu Ser Gly
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PA-0035 US

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<210> 300

<211> 110

<212> PRT

<213> Homo sapiens

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<223> Incyte ID No: 3727408CD1

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35 40 45
Cys Asp Gly Ser Glu Glu Glu Asn Gly Arg Leu Leu Gly Gln Met
50 55 60
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65 70 75
Trp Leu Ala Leu Thr Asp Pro Arg Asp Val Ala Arg Ile Glu Ser
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<400> 302

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tntcactcac acttcggagc tccagtcctg agtcgatgac atgttggtat gaagggaggg 480
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<210> 303

<211> 881

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 348082.5

<400> 303

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aatgaaagcc aagaagggaa tgctgaaggg cttgggagac atgttcagga ttcaagccaa 720
aactcgagaa tttagggaac gacaagctcg agagcgtgac tatgctgaaa ttcaagattt 780

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tcatcggaaca tttggctgtg atgatgagtt aatgtatggg ggagtttctt cttatgaagg 840
ttccatggct ctcaacgcta gacctcagag cccacgagaa g 881

<210> 304
<211> 1380
<212> DNA
<213> Homo sapiens

<220>
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<210> 305
<211> 1091
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1097910.1

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gcagctggat gagaacgcca atgtccagct gtcagatgag aagatcatta acatcgtctt 240
ggacctcttt ggagctgggt ttgacacagt cacaactgct atctcctgga gcctcatgta 300
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cctggagacc ttccgacact cttccttcgt ccccttcacc atcccccaac gcacaacaag 480
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<210> 306

<211> 3189

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 246841.1

<400> 306

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caagacttag tttaataaaa gaaagagaaa aacaaaagat tcccaggttg ttatgtgctt 600
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<210> 307

<211> 757

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 351241.1

<400> 307

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gcacacttca acccatccca ctaaacccta ggccttt 757

<210> 308

<211> 1079

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2790762CB1

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caataattga ggcagtgggt ctaaaagctg tctacattaa tgaaaagagc aatgtggcca 120

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gcttgactaa gccgccagcg cacagcgcg caggacgcgc ccgggtctca gcggacttgt 180
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<210> 309

<211> 247

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2790762CD1

<400> 309

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Gly	Glu	Ala	Val	Met	Glu	Ser	Arg	Ala	Arg	Pro	Phe	Gln	Ala	Leu
				20					25					30
Pro	Arg	Glu	Gln	Ser	Pro	Pro	Pro	Pro	Leu	Gln	Thr	Ser	Ser	Gly
				35					40					45
Ala	Glu	Val	Met	Asp	Val	Gly	Ser	Gly	Gly	Asp	Gly	Gln	Ser	Glu
				50					55					60
Leu	Pro	Ala	Glu	Asp	Pro	Phe	Asn	Phe	Tyr	Gly	Ala	Ser	Leu	Leu
				65					70					75
Ser	Lys	Gly	Ser	Phe	Ser	Lys	Gly	Arg	Leu	Leu	Ile	Asp	Pro	Asn
				80					85					90
Cys	Ser	Gly	His	Ser	Pro	Arg	Thr	Ala	Arg	His	Ala	Pro	Ala	Val
				95					100					105
Arg	Lys	Phe	Ser	Pro	Asp	Leu	Lys	Leu	Leu	Lys	Asp	Val	Lys	Ile
				110					115					120
Ser	Val	Ser	Phe	Thr	Glu	Ser	Cys	Arg	Ser	Lys	Asp	Arg	Lys	Val
				125					130					135
Leu	Tyr	Thr	Gly	Ala	Glu	Arg	Asp	Val	Arg	Ala	Glu	Cys	Gly	Leu
				140					145					150
Leu	Leu	Ser	Pro	Val	Ser	Gly	Asp	Val	His	Ala	Cys	Pro	Phe	Gly
				155					160					165
Gly	Ser	Val	Gly	Asp	Gly	Val	Gly	Ile	Gly	Gly	Glu	Ser	Ala	Asp
				170					175					180
Lys	Lys	Asp	Glu	Glu	Asn	Glu	Leu	Asp	Gln	Glu	Lys	Arg	Val	Glu
				185					190					195
Tyr	Ala	Val	Leu	Asp	Glu	Leu	Glu	Asp	Phe	Thr	Asp	Asn	Leu	Glu
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	215		220		225
Gln Arg Asp Arg	Val Asp Glu Glu Ala	Leu Asn Phe Pro Tyr	Glu		
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<210> 310

<211> 713

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2253717CB1

<400> 310

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gtatcaccta	tacagaaagg	ccaatagacc	caaagtctcc	aaaaagaagc	tcaaggaaga	660	
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<210> 311

<211> 201

<212> PRT

<213> Homo sapiens

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<223> Incyte ID No: 2253717CD1

<400> 311

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Thr	Glu	Ser	Pro	Val	Arg	Thr	Leu	Gln	Val	Glu	Thr	Leu	Val	Glu
			35						40					45
Pro	Pro	Glu	Pro	Cys	Ala	Glu	Pro	Ala	Ala	Phe	Gly	Asp	Thr	Leu
			50						55					60
His	Ile	His	Tyr	Thr	Gly	Ser	Leu	Val	Asp	Gly	Arg	Ile	Ile	Asp
			65						70					75
Thr	Ser	Leu	Thr	Arg	Asp	Pro	Leu	Val	Ile	Glu	Leu	Gly	Gln	Lys
			80						85					90
Gln	Val	Ile	Pro	Gly	Leu	Glu	Gln	Ser	Leu	Leu	Asp	Met	Cys	Val
			95						100					105
Gly	Glu	Lys	Arg	Arg	Ala	Ile	Ile	Pro	Ser	His	Leu	Ala	Tyr	Gly
			110						115					120
Lys	Arg	Gly	Phe	Pro	Pro	Ser	Val	Pro	Ala	Asp	Ala	Val	Val	Gln
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Tyr Asp Val Glu Leu Ile Ala Leu Ile Arg Ala Asn Tyr Trp Leu
140 145 150
Lys Leu Val Lys Gly Ile Leu Pro Leu Val Gly Met Ala Met Val
155 160 165
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170 175 180
Asn Arg Pro Lys Val Ser Lys Lys Lys Leu Lys Glu Glu Lys Arg
185 190 195
Asn Lys Ser Lys Lys Lys
200

<210> 312
<211> 1093
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2655184CB1

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<213> Homo sapiens

<220>
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<223> Incyte ID No: 2655184CD1

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Pro Pro Ser Glu Ser Ala Leu Ala Ser Gln Leu Ala Leu Ser Ala
35 40 45

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Ser Cys Asp Gln Arg Ala Pro Phe Ser Leu Ala Gly Val Val Ser
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His Asp Pro Gly Trp Pro Val Val Arg Leu His Arg Pro Leu Val
 65 70 75
Pro Glu His Ala Val Phe Ser Gln Pro Ser Leu Gln Pro
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<211> 3026

<212> DNA

<213> Homo sapiens

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<210> 315

<211> 1721

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 232818.15

<220>

<221> unsure

<222> 119, 126

<223> a, t, c, g, or other

<400> 315

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<210> 316
<211> 1489
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 347781.10

<220>
<221> unsure
<222> 524-538
<223> a, t, c, g, or other

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<211> 2833
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 2477616CB1

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<211> 466

<212> PRT

<213> Homo sapiens

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<400> 318

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10

15

311

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Gln

<210> 319
<211> 846
<212> DNA
<213> Homo sapiens

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<210> 321

<211> 498

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 110245.1

<400> 321

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<211> 1939

<212> DNA

<213> Homo sapiens

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<211> 1684

<212> DNA

<213> Homo sapiens

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<221> misc_feature

<223> Incyte ID No: 1813444CB1

<400> 323

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<211> 462

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1813444CD1

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Tyr	Gly	Gln	Gln	Ser	Ser	Tyr	Pro	Gly	Tyr	Gly	Gln	Gln	Pro	Ala
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Phe	Ser	Phe	Gly	Thr	Leu	Ser	Ser	Trp	Glu	Leu	Glu	Ala	Trp	Tyr
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Tyr	Val	Ser	Pro	Pro	Gly	Asn	Glu	Glu	Glu	Glu	Ser	Lys	Ile	Phe
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380	385	390
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<211> 2825

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<213> Homo sapiens

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<222> 1733, 2736, 2816

<223> a, t, c, g, or other

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<211> 997

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 407838.1

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<222> 740, 746, 819

<223> a, t, c, g, or other

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<211> 525

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 406498.4c

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PA-0035 US

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<211> 1744

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 3346307CB1

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<210> 331

<211> 232

<212> PRT

<213> Homo sapiens

PA-0035 US

<220>

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<223> Incyte ID No: 3346307CD1

<400> 331

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Arg Ser Ala Trp Gly Ser Ala Thr Arg Glu Glu Gly Phe Asp Arg
35 40 45
Ser Thr Ser Leu Glu Ser Ser Asp Cys Glu Ser Leu Asp Ser Ser
50 55 60
Asn Ser Gly Phe Gly Pro Glu Glu Asp Thr Ala Tyr Leu Asp Gly
65 70 75
Val Ser Leu Pro Asp Phe Glu Leu Leu Ser Asp Pro Glu Asp Glu
80 85 90
His Leu Cys Ala Asn Leu Met Gln Leu Leu Gln Glu Ser Leu Ala
95 100 105
Gln Ala Arg Leu Gly Ser Arg Arg Pro Ala Arg Leu Leu Met Pro
110 115 120
Ser Gln Leu Val Ser Gln Val Gly Lys Glu Leu Leu Arg Leu Ala
125 130 135
Tyr Ser Glu Pro Cys Gly Leu Arg Gly Ala Leu Leu Asp Val Cys
140 145 150
Val Glu Gln Gly Lys Ser Cys His Ser Val Gly Gln Leu Ala Leu
155 160 165
Asp Pro Ser Leu Val Pro Thr Phe Gln Leu Thr Leu Val Leu Arg
170 175 180
Leu Asp Ser Arg Leu Trp Pro Lys Ile Gln Gly Leu Phe Ser Ser
185 190 195
Ala Asn Ser Pro Phe Leu Pro Gly Phe Ser Gln Ser Leu Thr Leu
200 205 210
Ser Thr Gly Phe Arg Val Ile Lys Lys Lys Leu Tyr Ser Ser Glu
215 220 225
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230

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<211> 947

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 4005778CB1

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PA-0035 US

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<210> 333

<211> 175

<212> PRT

<213> Homo sapiens

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<223> Incyte ID No: 4005778CD1

<400> 333

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Tyr Leu Ser Leu Gly Phe Tyr Phe Asp Arg Asp Asp Val Ala Leu
          35          40          45
Glu Gly Val Ser His Phe Phe Arg Glu Leu Ala Glu Glu Lys Arg
          50          55          60
Glu Gly Tyr Glu Arg Leu Leu Lys Met Gln Asn Gln Arg Gly Gly
          65          70          75
Arg Ala Leu Phe Gln Asp Ile Lys Lys Pro Ala Glu Asp Glu Trp
          80          85          90
Gly Lys Thr Pro Asp Ala Met Lys Ala Ala Met Ala Leu Glu Lys
          95         100         105
Lys Leu Asn Gln Ala Leu Leu Asp Leu His Ala Leu Gly Ser Ala
         110         115         120
Arg Thr Asp Pro His Leu Cys Asp Phe Leu Glu Thr His Phe Leu
         125         130         135
Asp Glu Glu Val Lys Leu Ile Lys Lys Met Gly Asp His Leu Thr
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<211> 4252

<212> DNA

<213> Homo sapiens

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<221> misc_feature

<223> Incyte ID No: 995575.17

<220>

<221> unsure

<222> 1730, 1747, 1751, 1763, 1769, 1771-1772, 1778

<223> a, t, c, g, or other

<400> 334

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<210> 335
<211> 4303
<212> DNA
<213> Homo sapiens
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<220>  
<221> misc_feature  
<223> Incyte ID No: 863406CB1
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324

PA-0035 US

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<211> 717

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 863406CD1

<400> 336

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5

10

15

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Gln	Ala	Val	Glu	Asn	Leu	Cys	Ser	Tyr	Lys	Ile	Ser	Ala	Asn	Leu			
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Ile	His	Gln	Phe	Arg	Glu	Asp	Ser	Leu	Asp	Ser	Val	Leu	Phe	Leu			
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Lys	Lys	Ile	Asp	Arg	Cys	Trp	Gln	Asn	His	Cys	Arg	Gln	Met	Ile			
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Phe	Arg	Ala	His	Ile	Ile	Ser	Asp	Gln	Lys	Val	Gln	Asn	Lys	Thr			
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Ile	Asp	Gly	Ile	Leu	Leu	Leu	Ile	Glu	Arg	Glu	Arg	Asn	Gly	Glu			
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Ala	Ile	Asp	Arg	Ser	Leu	Leu	Arg	Ser	Leu	Leu	Ser	Met	Leu	Ser			
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Asp	Leu	Gln	Ile	Tyr	Gln	Asp	Ser	Phe	Glu	Gln	Arg	Phe	Leu	Glu			
				185					190					195			
Glu	Thr	Asn	Arg	Leu	Tyr	Ala	Ala	Glu	Gly	Gln	Lys	Leu	Met	Gln			
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Glu	Arg	Glu	Val	Pro	Glu	Tyr	Leu	His	His	Val	Asn	Lys	Arg	Leu			
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Glu	Glu	Glu	Ala	Asp	Arg	Leu	Ile	Thr	Tyr	Leu	Asp	Gln	Thr	Thr			
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Gln	Lys	Ser	Leu	Ile	Ala	Thr	Val	Glu	Lys	Gln	Leu	Leu	Gly	Glu			
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His	Leu	Thr	Ala	Ile	Leu	Gln	Lys	Gly	Leu	Asn	Asn	Leu	Leu	Asp			
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Glu	Asn	Arg	Ile	Gln	Asp	Leu	Ser	Leu	Leu	Tyr	Gln	Leu	Phe	Ser			
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Arg	Val	Arg	Gly	Gly	Val	Gln	Val	Leu	Leu	Gln	Gln	Trp	Ile	Glu			
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Tyr	Ile	Lys	Ala	Phe	Gly	Ser	Thr	Ile	Val	Ile	Asn	Pro	Glu	Lys			
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Asp	His	Ile	Ile	Asp	Ile	Cys	Phe	Leu	Lys	Asn	Glu	Lys	Phe	Ile			
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Phe Lys Gln Tyr Met Gln Asn Gln Asn Val Pro Gly Asn Ile Glu
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485 490 495
Pro Met Glu Val His Leu Pro Pro Glu Met Val Lys Leu Gln Glu
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<223> a, t, c, g, or other

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<211> 1520

<212> DNA

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<210> 343
<211> 364
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2706606CD1

<400> 343
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35 40 45
Ser Ile Gly Thr Glu Asn Thr Glu Glu Asn Arg Arg Phe Tyr Arg
50 55 60
Gln Leu Leu Leu Thr Ala Asp Asp Arg Val Asn Pro Cys Ile Gly
65 70 75
Gly Val Ile Leu Phe His Glu Thr Leu Tyr Gln Lys Ala Asp Asp
80 85 90
Gly Arg Pro Phe Pro Gln Val Ile Lys Ser Lys Gly Gly Val Val
95 100 105
Gly Ile Lys Val Asp Lys Gly Val Val Pro Leu Ala Gly Thr Asn
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Gly Glu Thr Thr Thr Gln Gly Leu Asp Gly Leu Ser Glu Arg Cys
125 130 135
Ala Gln Tyr Lys Lys Asp Gly Ala Asp Phe Ala Lys Trp Arg Cys
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Glu Asn Ala Asn Val Leu Ala Arg Tyr Ala Ser Ile Cys Gln Gln
170 175 180
Asn Gly Ile Val Pro Ile Val Glu Pro Glu Ile Leu Pro Asp Gly
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Asp His Asp Leu Lys Arg Cys Gln Tyr Val Thr Glu Lys Val Leu
200 205 210
Ala Ala Val Tyr Lys Ala Leu Ser Asp His His Ile Tyr Leu Glu
215 220 225
Gly Thr Leu Leu Lys Pro Asn Met Val Thr Pro Gly His Ala Cys
230 235 240
Thr Gln Lys Phe Ser His Glu Glu Ile Ala Met Ala Thr Val Thr
245 250 255
Ala Leu Arg Arg Thr Val Pro Pro Ala Val Thr Gly Ile Thr Phe
260 265 270
Leu Ser Gly Gly Gln Ser Glu Glu Glu Ala Ser Ile Asn Leu Asn
275 280 285
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Ser Tyr Gly Arg Ala Leu Gln Ala Ser Ala Leu Lys Ala Trp Gly
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<210> 346

<211> 392

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 481480.7

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<220>

<221> unsure

<222> 311, 324, 353, 382, 389

<223> a, t, c, g, or other

<400> 346

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<210> 347

<211> 1860

<212> DNA

<213> Homo sapiens

<220>

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<223> Incyte ID No: 662575CB1

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<210> 348
<211> 450
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 662575CD1

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35 40 45
Leu Val Ala Ala Leu Ala Gly Leu Gly Leu Gly Leu Ser Leu Ile
50 55 60
Phe Ile Ala Val Tyr Leu Ile Arg Phe Cys Cys Cys Arg Pro Pro
65 70 75
Glu Pro Pro Gly Ser Lys Ile Pro Ser Pro Gly Gly Gly Cys Val
80 85 90
Thr Trp Ser Cys Ile Val Ala Leu Leu Ala Gly Cys Thr Gly Ile
95 100 105
Gly Ile Gly Phe Tyr Gly Asn Ser Glu Thr Ser Asp Gly Val Ser
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Gln Leu Ser Ser Ala Leu Leu His Ala Asn His Thr Leu Ser Thr
125 130 135
Ile Asp His Leu Val Leu Glu Thr Val Glu Arg Leu Gly Glu Ala
140 145 150
Val Arg Thr Glu Leu Thr Thr Leu Glu Glu Val Leu Glu Pro Arg
155 160 165
Thr Glu Leu Val Ala Ala Ala Arg Gly Ala Arg Arg Gln Ala Glu
170 175 180
Ala Ala Ala Gln Gln Leu Gln Gly Leu Ala Phe Trp Gln Gly Val
185 190 195
Pro Leu Ser Pro Leu Gln Val Ala Glu Asn Val Ser Phe Val Glu
200 205 210
Glu Tyr Arg Trp Leu Ala Tyr Val Leu Leu Leu Leu Glu Leu
215 220 225
Leu Val Cys Leu Phe Thr Leu Leu Gly Leu Ala Lys Gln Ser Lys
230 235 240
Trp Leu Val Ile Val Met Thr Val Met Ser Leu Leu Val Leu Val
245 250 255
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260 265 270
Leu Ser Asp Phe Cys Ser Asn Pro Asp Pro Tyr Val Leu Asn Leu
275 280 285
Thr Gln Glu Glu Thr Gly Leu Ser Ser Asp Ile Leu Ser Tyr Tyr
290 295 300
Leu Leu Cys Asn Arg Ala Val Ser Asn Pro Phe Gln Gln Arg Leu
305 310 315
Thr Leu Ser Gln Arg Ala Leu Ala Asn Ile His Ser Gln Leu Leu
320 325 330
Gly Leu Glu Arg Glu Ala Val Pro Gln Phe Pro Ser Ala Gln Lys
335 340 345

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Pro	Leu	Leu	Ser	Leu	Glu	Glu	Thr	Leu	Asn	Val	Thr	Glu	Gly	Asn
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Phe	His	Gln	Leu	Val	Ala	Leu	Leu	His	Cys	Arg	Ser	Leu	His	Lys
				365					370					375
Asp	Tyr	Gly	Ala	Ala	Leu	Arg	Gly	Leu	Cys	Glu	Asp	Ala	Leu	Glu
				380					385					390
Gly	Leu	Leu	Phe	Leu	Leu	Leu	Phe	Ser	Leu	Leu	Ser	Ala	Gly	Ala
				395					400					405
Leu	Ala	Thr	Ala	Leu	Cys	Ser	Leu	Pro	Arg	Ala	Trp	Ala	Leu	Phe
				410					415					420
Pro	Pro	Ser	Asp	Asp	Tyr	Asp	Asp	Thr	Asp	Asp	Asp	Asp	Pro	Phe
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<211> 875
<212> DNA
<213> Homo sapiens

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<223> Incyte ID No: 027619.3

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<221> unsure
<222> 844, 847
<223> a, t, c, g, or other

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<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
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<222> 2577

<223> a, t, c, g, or other

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<223> Incyte ID No: 127004.1

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<221> unsure
<222> 666
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<211> 1359
<212> DNA
<213> Homo sapiens

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<221> unsure
<222> 198
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<221> unsure
<222> 524
<223> a, t, c, g, or other

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<210> 356
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<212> DNA
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<221> unsure
<222> 374, 491
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<213> Homo sapiens

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PA-0035 US

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Ile	Leu	Thr	Asn	Cys	Ile	Phe	Met	Thr	Met	Asn	Asn	Pro	Pro	Asp
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Phe	Thr	Phe	Leu	Arg	Asp	Pro	Trp	Asn	Trp	Leu	Asp	Phe	Val	Val	185	190	195
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Ser	Ala	Leu	Arg	Thr	Phe	Arg	Val	Leu	Arg	Ala	Leu	Lys	Thr	Ile	215	220	225
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Ser	Val	Lys	Lys	Leu	Ser	Asp	Val	Met	Ile	Leu	Thr	Val	Phe	Cys	245	250	255
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Gly	Ser	Leu	Phe	Ser	Ala	Arg	Arg	Ser	Ser	Arg	Thr	Ser	Leu	Phe	545	550	555
Ser	Phe	Lys	Gly	Arg	Gly	Arg	Asp	Ile	Gly	Ser	Glu	Thr	Glu	Phe	560	565	570

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Pro	Glu	Gly	Thr	Thr	Asn	Gln	Ile	His	Lys	Lys	Arg	Arg	Cys	Ser		
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Gln	Arg	Ala	Met	Ser	Arg	Ala	Ser	Ile	Leu	Thr	Asn	Thr	Val	Glu		
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Glu	Leu	Glu	Glu	Ser	Arg	Gln	Lys	Cys	Pro	Pro	Trp	Trp	Tyr	Arg		
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Phe	Ala	His	Lys	Phe	Leu	Ile	Trp	Asn	Cys	Ser	Pro	Tyr	Trp	Ile		
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Lys	Phe	Lys	Lys	Cys	Ile	Tyr	Phe	Ile	Val	Met	Asp	Pro	Phe	Val		
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Tyr	Asn	Ala	Met	Lys	Lys	Leu	Gly	Ser	Lys	Lys	Pro	Gln	Lys	Pro	
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Ile	Pro	Arg	Pro	Gly	Asn	Lys	Ile	Gln	Gly	Cys	Ile	Phe	Asp	Leu	
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His	Met	Thr	Glu	Val	Leu	Tyr	Trp	Ile	Asn	Val	Val	Phe	Ile	Ile	
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Tyr	Phe	Val	Ser	Pro	Thr	Leu	Phe	Arg	Val	Ile	Arg	Leu	Ala	Arg	
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Ile	Gly	Arg	Ile	Leu	Arg	Leu	Val	Lys	Gly	Ala	Lys	Gly	Ile	Arg	
				1610					1615					1620	
Thr	Leu	Leu	Phe	Ala	Leu	Met	Met	Ser	Leu	Pro	Ala	Leu	Phe	Asn	
				1625					1630					1635	
Ile	Gly	Leu	Leu	Leu	Phe	Leu	Val	Met	Phe	Ile	Tyr	Ala	Ile	Phe	
				1640					1645					1650	
Gly	Met	Ser	Asn	Phe	Ala	Tyr	Val	Lys	Lys	Glu	Asp	Gly	Ile	Asn	
				1655					1660					1665	
Asp	Met	Phe	Asn	Phe	Glu	Thr	Phe	Gly	Asn	Ser	Met	Ile	Cys	Leu	
				1670					1675					1680	
Phe	Gln	Ile	Thr	Thr	Ser	Ala	Gly	Trp	Asp	Gly	Leu	Leu	Ala	Pro	
				1685					1690					1695	
Ile	Leu	Asn	Ser	Lys	Pro	Pro	Asp	Cys	Asp	Pro	Lys	Lys	Val	His	
				1700					1705					1710	
Pro	Gly	Ser	Ser	Val	Glu	Gly	Asp	Cys	Gly	Asn	Pro	Ser	Val	Gly	
				1715					1720					1725	
Ile	Phe	Tyr	Phe	Val	Ser	Tyr	Ile	Ile	Ile	Ser	Phe	Leu	Val	Val	
				1730					1735					1740	
Val	Asn	Met	Tyr	Ile	Ala	Val	Ile	Leu	Glu	Asn	Phe	Ser	Val	Ala	
				1745					1750					1755	
Thr	Glu	Glu	Ser	Thr	Glu	Pro	Leu	Ser	Glu	Asp	Asp	Phe	Glu	Met	
				1760					1765					1770	
Phe	Tyr	Glu	Val	Trp	Glu	Lys	Phe	Asp	Pro	Asp	Ala	Thr	Gln	Phe	
				1775					1780					1785	
Ile	Glu	Phe	Ser	Lys	Leu	Ser	Asp	Phe	Ala	Ala	Ala	Leu	Asp	Pro	
				1790					1795					1800	
Pro	Leu	Leu	Ile	Ala	Lys	Pro	Asn	Lys	Val	Gln	Leu	Ile	Ala	Met	
				1805					1810					1815	
Asp	Leu	Pro	Met	Val	Ser	Gly	Asp	Arg	Ile	His	Cys	Leu	Asp	Ile	
				1820					1825					1830	

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Leu Phe Ala Phe Thr Lys Arg Val Leu Gly Glu Ser Gly Glu Met
1835 1840 1845
Asp Ser Leu Arg Ser Gln Met Glu Glu Arg Phe Met Ser Ala Asn
1850 1855 1860
Pro Ser Lys Val Ser Tyr Glu Pro Ile Thr Thr Thr Leu Lys Arg
1865 1870 1875
Lys Gln Glu Asp Val Ser Ala Thr Val Ile Gln Arg Ala Tyr Arg
1880 1885 1890
Arg Tyr Arg Leu Arg Gln Asn Val Lys Asn Ile Ser Ser Ile Tyr
1895 1900 1905
Ile Lys Asp Gly Asp Arg Asp Asp Asp Leu Leu Asn Lys Lys Asp
1910 1915 1920
Met Ala Phe Asp Asn Val Asn Glu Asn Ser Ser Pro Glu Lys Thr
1925 1930 1935
Asp Ala Thr Ser Ser Thr Thr Ser Pro Pro Ser Tyr Asp Ser Val
1940 1945 1950
Thr Lys Pro Asp Lys Glu Lys Tyr Glu Gln Asp Arg Thr Glu Lys
1955 1960 1965
Glu Asp Lys Gly Lys Asp Ser Lys Glu Ser Lys Lys
1970 1975

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<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 351157.2

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acgggtcgga ggcaggaccc gtgcgttttc agatgtacta gctgggctgt tctaactgca 600
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<210> 369
<211> 2309
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 088957CB1

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tcagcagtgt ccatttgaag atcatgtaaa attagtgaat gaagtaactg aatttgcaaa 240

aacatgtgtt gctgatgagt cagctgaaaa ttgtgacaaa tcacttcata cccttttttg 300
 agacaaatta tgcacagttg caactcttcg tgaaacctat ggtgaaatgg ctgactgctg 360
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<210> 370

<211> 609

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 088957CD1

<400> 370

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 20 25 30
 Val Ala His Arg Phe Lys Asp Leu Gly Glu Glu Asn Phe Lys Ala
 35 40 45
 Leu Val Leu Ile Ala Phe Ala Gln Tyr Leu Gln Gln Cys Pro Phe
 50 55 60
 Glu Asp His Val Lys Leu Val Asn Glu Val Thr Glu Phe Ala Lys
 65 70 75

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Thr	Cys	Val	Ala	Asp	Glu	Ser	Ala	Glu	Asn	Cys	Asp	Lys	Ser	Leu	80	85	90
His	Thr	Leu	Phe	Gly	Asp	Lys	Leu	Cys	Thr	Val	Ala	Thr	Leu	Arg	95	100	105
Glu	Thr	Tyr	Gly	Glu	Met	Ala	Asp	Cys	Cys	Ala	Lys	Gln	Glu	Pro	110	115	120
Glu	Arg	Asn	Glu	Cys	Phe	Leu	Gln	His	Lys	Asp	Asp	Asn	Pro	Asn	125	130	135
Leu	Pro	Arg	Leu	Val	Arg	Pro	Glu	Val	Asp	Val	Met	Cys	Thr	Ala	140	145	150
Phe	His	Asp	Asn	Glu	Glu	Thr	Phe	Leu	Lys	Lys	Tyr	Leu	Tyr	Glu	155	160	165
Ile	Ala	Arg	Arg	His	Pro	Tyr	Phe	Tyr	Ala	Pro	Glu	Leu	Leu	Phe	170	175	180
Phe	Ala	Lys	Arg	Tyr	Lys	Ala	Ala	Phe	Thr	Glu	Cys	Cys	Gln	Ala	185	190	195
Ala	Asp	Lys	Ala	Ala	Cys	Leu	Leu	Pro	Lys	Leu	Asp	Glu	Leu	Arg	200	205	210
Asp	Glu	Gly	Lys	Ala	Ser	Ser	Ala	Lys	Gln	Arg	Leu	Lys	Cys	Ala	215	220	225
Ser	Leu	Gln	Lys	Phe	Gly	Glu	Arg	Ala	Phe	Lys	Ala	Trp	Ala	Val	230	235	240
Ala	Arg	Leu	Ser	Gln	Arg	Phe	Pro	Lys	Ala	Glu	Phe	Ala	Glu	Val	245	250	255
Ser	Lys	Leu	Val	Thr	Asp	Leu	Thr	Lys	Val	His	Thr	Glu	Cys	Cys	260	265	270
His	Gly	Asp	Leu	Leu	Glu	Cys	Ala	Asp	Asp	Arg	Ala	Asp	Leu	Ala	275	280	285
Lys	Tyr	Ile	Cys	Glu	Asn	Gln	Asp	Ser	Ile	Ser	Ser	Lys	Leu	Lys	290	295	300
Glu	Cys	Cys	Glu	Lys	Pro	Leu	Leu	Glu	Lys	Ser	His	Cys	Ile	Ala	305	310	315
Glu	Val	Glu	Asn	Asp	Glu	Met	Pro	Ala	Asp	Leu	Pro	Ser	Leu	Ala	320	325	330
Ala	Asp	Phe	Val	Glu	Ser	Lys	Asp	Val	Cys	Lys	Asn	Tyr	Ala	Glu	335	340	345
Ala	Lys	Asp	Val	Phe	Leu	Gly	Met	Phe	Leu	Tyr	Glu	Tyr	Ala	Arg	350	355	360
Arg	His	Pro	Asp	Tyr	Ser	Val	Val	Leu	Leu	Leu	Arg	Leu	Ala	Lys	365	370	375
Thr	Tyr	Glu	Thr	Thr	Leu	Glu	Lys	Cys	Cys	Ala	Ala	Ala	Asp	Pro	380	385	390
His	Glu	Cys	Tyr	Ala	Lys	Val	Phe	Asp	Glu	Phe	Lys	Pro	Leu	Val	395	400	405
Glu	Glu	Pro	Gln	Asn	Leu	Ile	Lys	Gln	Asn	Cys	Glu	Leu	Phe	Glu	410	415	420
Gln	Leu	Gly	Glu	Tyr	Lys	Phe	Gln	Asn	Ala	Leu	Leu	Val	Arg	Tyr	425	430	435
Thr	Lys	Lys	Val	Pro	Gln	Val	Ser	Thr	Pro	Thr	Leu	Val	Glu	Val	440	445	450
Ser	Arg	Asn	Leu	Gly	Lys	Val	Gly	Ser	Lys	Cys	Cys	Lys	His	Pro	455	460	465
Glu	Ala	Lys	Arg	Met	Pro	Cys	Ala	Glu	Asp	Tyr	Leu	Ser	Val	Val	470	475	480
Leu	Asn	Gln	Leu	Cys	Val	Leu	His	Glu	Lys	Thr	Pro	Val	Ser	Asp	485	490	495

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Arg Val Thr Lys Cys Cys Thr Glu Ser Leu Val Asn Arg Arg Pro
500 505 510
Cys Phe Ser Ala Leu Glu Val Asp Glu Thr Tyr Val Pro Lys Glu
515 520 525
Phe Asn Ala Glu Thr Phe Thr Phe His Ala Asp Ile Cys Thr Leu
530 535 540
Ser Glu Lys Glu Arg Gln Ile Lys Lys Gln Thr Ala Leu Val Glu
545 550 555
Leu Val Lys His Lys Pro Lys Ala Thr Lys Glu Gln Leu Lys Ala
560 565 570
Val Met Asp Asp Phe Ala Ala Phe Val Glu Lys Cys Cys Lys Ala
575 580 585
Asp Asp Lys Glu Thr Cys Phe Ala Glu Glu Gly Lys Lys Leu Val
590 595 600
Ala Ala Ser Gln Ala Ala Leu Gly Leu
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<210> 371

<211> 1620

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 980446.1

<220>

<221> unsure

<222> 1524

<223> a, t, c, g, or other

<400> 371

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ctattgtaac tgattaccat aacctgaaga caagattcaa ttatctggga ttcggtggct 180
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<210> 372

<211> 1186

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 198827.1

<400> 372

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<211> 3128

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 1102297.22

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Glu Leu Pro Trp	Thr Thr Cys Asn Asn Phe Trp Asn Thr Glu His	155	160	165
Cys Thr Asp Phe	Leu Asn His Ser Gly Ala Gly Thr Val Thr Pro	170	175	180
Phe Glu Asn Phe	Thr Ser Pro Val Met Glu Phe Trp Glu Arg Arg	185	190	195
Val Leu Gly Ile	Thr Ser Gly Ile His Asp Leu Gly Ser Leu Arg	200	205	210
Trp Glu Leu Ala	Leu Cys Leu Leu Leu Ala Trp Val Ile Cys Tyr	215	220	225
Phe Cys Ile Trp	Lys Gly Val Lys Ser Thr Gly Lys Val Val Tyr	230	235	240
Phe Thr Ala Thr	Phe Pro Tyr Leu Met Leu Val Ile Leu Leu Ile	245	250	255
Arg Gly Val Thr	Leu Pro Gly Ala Tyr Gln Gly Ile Ile Tyr Tyr	260	265	270
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Tyr Lys Asp Cys	Ile Ala Leu Cys Phe Leu Asn Ser Ala Thr Ser	320	325	330
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Gln Glu Gln Gly	Val Pro Ile Ser Glu Val Ala Glu Ser Gly Pro	350	355	360
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Gly Leu Phe Leu	Val Thr Glu Gly Gly Met Tyr Ile Phe Gln Leu	440	445	450
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Leu Phe Glu Val	Val Cys Ile Ser Trp Val Tyr Gly Ala Asp Arg	470	475	480
Phe Tyr Asp Asn	Ile Glu Asp Met Ile Gly Tyr Arg Pro Trp Pro	485	490	495
Leu Val Lys Ile	Ser Trp Leu Phe Leu Thr Pro Gly Leu Cys Leu	500	505	510
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tatggtccag gaagctgaga agtacaaagc tgaagatgag aagcagaggg acaaggtgtc 540
atccaagaat tcaattgagt cctatgcctt caacatgaaa gcaactgttg aagatgagaa 600
acttcaaggc aagattaacg atgaggacaa acagaagatt ctggacaagt gtaatgaaat 660
tatcaactgg cttgataaga atcagactgc cgagaaggaa gaatttgaac atcaacagaa 720
agagctggag aaagtttgca accccatcat caccaagctg taccagagtg caggaggcat 780
gccaggagga atgctggggg gatttctctg tggtagagct cctccctctg gtggtgcttc 840
ctcagggccc accattgaag aggttgatta agccaaccaa gtgtagatgt agcattgttc 900
cacacattta aaacatttga aggacctaaa ttcgtagcaa attctgtggc agttttaaaa 960
agttaagctg ctatagtaag ttactgggca ttctcaatac ttgaatatgg aacatatgca 1020
caggggaagg aaataacatt gcactttata aacactgtat tgtaagtggg aaatgcaatg 1080
tcttaaataa aactatttaa aattggcacc atacaattgc tttgagtctt taaataatct 1140
cccaggccag ctggtgggag a 1161
```

<210> 389
<211> 1432
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2070610CB1

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<400> 389
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ttgctattaa cttccttcca aaatgtcacc attcctgtat ctggttctct tggtagcttg 120
gcttcatgct acaatccact gtgcatcacc tgaaggcaaa gtaacagcct gccattcatc 180
ccaaccaaat gccactctct acaagatgtc atccattaat gctgactttg cattcaatct 240
gtaccggagg ttcactgtgg agaccccaga taagaacatc ttcttttccc ctgtgagcat 300
ttctgcagct ttggttatgc tttccttttg ggcctgctgc agcaccacaa ctgagattgt 360
```

```
<210> 390
<211> 415
<212> PRT
<213> Homo sapiens
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```
<220>  
<221> misc_feature  
<223> Incyte ID No: 2070610CD1
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380

Ala Asn Pro Phe	200	205	210
Asp Pro Ser Lys Thr		Glu Asp Ser Ser Ser	Phe
215		220	225
Leu Ile Asp Lys	Thr Thr Thr Val Gln	Val Pro Met Met His	Gln
230		235	240
Met Glu Gln Tyr	Tyr His Leu Val Asp	Met Glu Leu Asn Cys	Thr
245		250	255
Val Leu Gln Met	Asp Tyr Ser Lys Asn	Ala Leu Ala Leu Phe	Val
260		265	270
Leu Pro Lys Glu	Gly Gln Met Glu Ser	Val Glu Ala Ala Met	Ser
275		280	285
Ser Lys Thr Leu	Lys Lys Trp Asn Arg	Leu Leu Gln Lys Gly	Trp
290		295	300
Val Asp Phe Phe	Val Pro Lys Phe Ser	Ile Ser Ala Thr Tyr	Asp
305		310	315
Leu Gly Ala Thr	Leu Leu Lys Met Gly	Ile Gln His Ala Tyr	Ser
320		325	330
Glu Asn Ala Asp	Phe Ser Gly Leu Thr	Glu Asp Asn Gly Leu	Lys
335		340	345
Leu Ser Asn Ala	Ala His Lys Ala Val	Leu His Ile Gly Glu	Lys
350		355	360
Gly Thr Glu Ala	Ala Ala Val Pro Glu	Val Glu Leu Ser Asp	Gln
365		370	375
Pro Glu Asn Thr	Phe Leu His Pro Ile	Ile Gln Ile Asp Arg	Ser
380		385	390
Phe Met Leu Leu	Ile Leu Glu Arg Ser	Thr Arg Ser Ile Leu	Phe
395		400	405
Leu Gly Lys Val	Val Asn Pro Thr Glu	Ala	
410		415	

<210> 391

<211> 1215

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 336733.3

<400> 391

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tactgcgcta gtcccacccg cggaggggac gcaggcgtgc aaatctgtct cgccctgcagg 180
aagcgccgaa aacgctgcat gcgtcacgct atgtgctgcc ccgggaatta ctgcaaaaat 240
ggaatatgtg tgtcttctga tcaaaatcat ttccgaggag aaattgagga aaccatcact 300
gaaagccttg gtaatgatca tagcaccttg gatgggtatt ccagaagaac caccctgtct 360
tcaaaaatgt atcacaccaa aggacaagaa ggttctgttt gtctccggtc atcagactgt 420
gcctcaggat tgtgttgtgc tagacacctc tgggtccaaga tctgtaaacc tgtcctgaaa 480
gaaggtcaag tgtgtaccaa gcataggaga aaaggctctc atggactaga aataatccag 540
cgttggtact gtggagaagg tctgtcttgc cggatacaga aagatcacca tcaagccagt 600
aattcttcta ggcttcacac ttgtcagaga cactaaacca gctatccaaa tgcagtgaac 660
tccttttata taatagatgc tatgaaaacc ttttatgacc ttcatacaact caatcctaag 720
gataatacaag ttctgtgggt tcagttaagc attccaataa caccttccaa aaacctggag 780
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aattctcagt gtggcactta cctgtaaagt caatgaaact ttttaattatt tttctaaagg 900
tgctgcactg cctatttttc ctcttggtat gtaaattttt gtacacattg attgttatct 960
tgactgacaa atattctata ttgaactgaa gtaaatacatt tcagcttata gttcttaaaa 1020

```

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```
gcataaccct ttacccatt taattctaga gtctagaacg caaggatctc ttggaatgac 1080
aatgatagg tacctaaaat gtaacatgaa aatactagct tattttctga aatgtactat 1140
cttaatgctt aaattatatt tccctttagg ctgtgatagt ttttgaaata aaatttaaca 1200
tttaatatca aaaaa 1215
```

<210> 392

<211> 975

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1326902.13

<220>

<221> unsure

<222> 174

<223> a, t, c, g, or other

<400> 392

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aaagaaatgt atttgaagtt ctttttcttt ccccatagg gtagaagagc agaggatggc 60
tctgtcattg attatgaact gattgaccaa gatgctcggg atctctatga cgctggagtg 120
aagaggaaaag gaactgatgt tcccaagtgg atcagcatca tgaccgagcg gacntgcccc 180
acctccagaa agtattttgat aggtacaaga gttacagccc ttatgacatg ttggaaagca 240
tcaggaaaaga ggttaaagga gacctgggtc agtgcattca gaacaagccc ctgtattttg 300
ctgatcggct gtatgactcc atgaagggca aggggacgcg agataaggtc ctgatcagaa 360
tcatggtctc ccgcagtga gtggacatgt tgaaaattag gtctgaattc aagagaaaagt 420
acggcaagtc cctgtactat tatatccagc aagacactaa gggcgactac cagaaagcgc 480
tgctgtacct gtgtggtgga gatgactgaa gcccgacacg gcctgagcgt ccagaaatgg 540
tgctcaccat gcttccagct aacagggtcta gaaaaccagt cttggcgaat aacagtcgcc 600
cttagtgtct tgctggatat aataggacag ggactggccg tactttctct tgaattcaga 660
cctaattttc aacatgtcca cttcactgcg ggagaccatg attctgatca ggaccttatc 720
tcgctgtccc ttgcccttca tggagtcata cagccgatca gcaaaatata ggggcttggt 780
ctgaatgcgc tgaaccaggc tcaggaaaagc attttccagg tctcctttaa cctcttgcc 840
gatgctttcc aacatgtcat aagggtgtga actctgttac ctatcaaata ctttctggag 900
gtggggcagc ctccgctcgg tcatgatgct gatccactag gggaacatca ggtcctttcc 960
tcttcaactc agcgt 975
```

<210> 393

<211> 1660

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1326902.6

<400> 393

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atgaagtagg aaatatattat atggatacaa aaggcacctg catgggataa tgtcaaattt 120
catagatact gctttgtgct tccttcaaaa tgtctactgt tcacgaaatc ctgtgcaagc 180
tcagcttgga gggatgacac tctacacccc caagtgcata tgggtctgtc aaagcctata 240
ctaactttga tgctgagcgg gatgctttga acattgaaac agccatcaag accaaagggtg 300
tggatgaggt caccattgtc aacattttga ccaaccgag caatgcacag agacaggata 360
ttgccttcgc ctaccagaga aggacaaaaa aggaacttgc atcagcactg aagtcagcct 420
tatctggcca cctggagacg ttgattttgg gcctattgaa gacacctgct cagtatgacg 480
```

PA-0035 US

```
cttctgagct aaaagcttcc atgaaggggc tgggaaccga cgaggactct ctcattgaga 540
tcattctgctc cagaaccaac caggagctgc aggaaattaa cagagtctac aaggaaatgt 600
acaagactga tctggagaag gacattatct cggacacatc tgggtgacttc cgcaagctga 660
tggttggccc tggcaaaggg tagaagagca gaggatggct ctgtcattga ttatgaactg 720
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cccaagtgga tcagcatcat gaccgagcgg agcgtgcccc acctccagaa agtatttgat 840
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tgtttgaaaa ttaaacgtgc ttgggggttca gctgggtgagg ctgtccctgt aggaagaaag 1560
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<210> 394

<211> 773

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 013521.16

<400> 394

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ttcttgaact cctggaccat gaatatctaa cctcaactgt caggagagaa aaggcagtga 120
taaccaacat tctgctaaga atacagtcac ccaaagggtt tgatgtgaag gaccatgctc 180
agaagcagga gaccgctaac agcctgccag cccctcctca gatgcccctg ccggagatcc 240
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aaggttatta tgaggaagct gtgccgctga gccccggaaa agctccggaa tacatcacat 360
caaattatga ttccgatgag atgagcagct cttatgagtc gtatgatgaa gaggaggagg 420
atgggaaggg gaagaaaacc cggcaccagt ggccctccga ggaggcctcc atggacctgg 480
tcaaggacgc caaaatctgc gccttcctgc tgcggaagaa gcggttcggc cagtggacca 540
agttgctctg cgtcacataa gacaccaaac tgctgtgcta taaaagtcc aaggaccagc 600
agcctcagat ggaactgcca ctccaaggct gtaacattac gtacatccc aaagacagca 660
aaaagaagaa gcacgagctg aagattactc agcagggcac ggaccgctt gttctcgccg 720
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<210> 395

<211> 1321

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 985369.1

<400> 395

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cttctgcca aggaattcc agagcctgta ttttaagctac ctaggctttt acactccctt 120
tattgccttt ccaaatagta tctcatttgg tgtactctag tgtcctatac ctcttggaaa 180
cgaaagaggg cccaacctac aactaagaag ggacaaacct tgaactaagt aagaccttac 240
acaccagaa agaactctgg gccctccttc ttcagggaca atgcagtagc cacttggcct 300
gtggaattta ctgaaggcta tttcctgtaa cttgctagtt aacttagttt tgtatttcag 360
ggcagagggt cgctctgtaa tgttgggcct ttgacttcac agtactggag agctgttcac 420
acagatgttt agacctttct ctctctctct tttcttcttt ctcaacaact ctttcacaga 480
ggcagtcatt ttgaaagggt gaaatatttg gccctttacca aagagctttt tttttcctta 540
agcaaatcc tttcagaaag aaacaaatgg ggaagggcag attaagaatg catatgtccc 600
aatccacttc tataggagtt taatcatatt cacatgagta aaatgatgga agaactcttt 660
aaggtaatcc tttgggataa aggatcctgg gaagtctct caggtaaaga aagcttacag 720
cagatttgta atatatgtct ggagagctat ttataagaaa ttttaagagga ttgttttggt 780
ttccttttatt aaagatttaa gccctttttac tttgcaaaaa gaaaactaca aaagttttat 840
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tggttacgtt ttgctacatt agaatttgaa aatgcaatat gtgtggtaaa tctactgttt 960
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cccttttagtc atggatttct atttgttttt taatgttaat ttttctagaa agcatctgaa 1080
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tttaaaatta aaactgtgtt gtttttttct cttctgctag atacatatat aattaaagta 1200
ctcaagttag ttgttttgca gagatgttgc cttcagatgt taatcaggtc tctcaagttt 1260
catggagtct atgctgatcc ttttaattgac aaataaaaaga tatatatctg tgggtgtgcaa 1320
c 1321

```

<210> 396

<211> 1275

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 002455.1

<220>

<221> unsure

<222> 525

<223> a, t, c, g, or other

<400> 396

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cccgggggtg ccgagccggc ggggggtgag gtggctgcgc cggcgccggg gctaggaggt 120
gcgggcactg ggggcgcggg aggggacgtg gcaggcccg cgggggccac ggcgatccca 180
ggggccagga aggtcccgt gcgggcacgc aatctgcct ccgtccttct tcacggagcc 240
gtcccgggca ggcggggggc ggggtgtggc ccgtcggggc cggacgtgag ccttgggcca 300
cctggagaag ggcgcggagg ccgtggagtt ctttgagcct gctggggccc gactacggcg 360
ccggcacgga ggcggcagtc ttgcttgccg ccgagcctct cgacgtgttt cccgcgggag 420
cctccgtact gcggggaccc ccggagctgg agcccggcct ctttgagccg ccgcgggcag 480
tgggtgggaaa cctattgtac cccgagccct ggagcgtccc ggtgnacct cccgacccaa 540
aagagccccc tgaactcccc ccgcggcggc ttgaccttga acgagccctt gagccccctg 600
taccgcccg ctgcggattc tcccggcggg gaggacgggc cgggccattt ggccctcttc 660
gcccccttct ttccagactg cgccttgccc ccgagccgc cgcgccatca ggtgtcctac 720
gattacagcg cgggctacag ccgcacggcc tattccagcc tttggagatc cgacggggtt 780
tggaagggg cgccggggga ggaggggcg caccgggact gacttcgagg cacgcttccc 840
ttcattagag acggctgtgg agagcgccgc gcctccgtgg gtttctccta aatctgaaga 900
acgatgggaa atgcacgtgg agatgaaacc agatttttaa aaattcaatt aataaaagca 960
acttcagaaa aaagagatga agacgagttg gggattgttt aatcacaacc tcaagtgtta 1020
aaacaaaaac aaacaaacac gtttgtaggt tcttactgga ccagaggagt caagaaacca 1080

```

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agatggtttg ggggtatgggg tggggacggc aaaaggggta agagctggct tctgtagcca 1140
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agtgtcctag tccctccctt ccctctcctt gagtgcattt tgaattaaag cctatatattga 1260
aaaaaaaaaa aaagg 1275

<210> 397
<211> 792
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 372647.1

<400> 397
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tcttattaat agtttcattg agagagaatt caacagggtat ttgtttgtaa gtactaacia 180
aaaattgtac attcaatact tatcaaacia aagttacatg atcttattct tccactatta 240
aatttttatt ttatttttaa attttgattt tttggcattt cacctgcaag tctttttgtc 300
ttattagagt cacactatgt gatgggtattt tttctttatc cacaatctcc cctgactccc 360
ctgttactat tatggaataa tgtaaagtta agaattaatt atgattacag tagttatggg 420
taattaggta ctatgaatca aatcttagaa atcactttca ttattgtaat agtgcctcag 480
aaaacaattt ttctcttttg acttttttaa ttgttaatac tatcataaat ggcatthtatg 540
tattcattta ccaaatattg atcaaaaact actttgtgtc taccatcaga atttaaaaga 600
caccttctta gatcatagag aaggcttact gacatggcac atacagaatg gtaaacagat 660
agctatatta cacaatgaga taagtgtctt aataacaata tagagctgta agggagtga 720
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gttaaacgaa gc 792

<210> 398
<211> 1293
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 208075.1

<220>
<221> unsure
<222> 540-668
<223> a, t, c, g, or other

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ttttggtaca gagatagaat taaataacat aaaaatcaaa aattttattag gctaaaattt 180
tgaggagaa gtggtatgaa aatacaaatt caaggagtaa aaggaaaagt ggggcattcc 240
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taaaattttt aaaaagatca tagtatctat caaataactt atattaagaa cctcctgggc 360
taaattttaa aagtaataca acagttttat ttaaacatgt agtgtctacg gtatgccagc 420
actttgcagc tattttataat gagaaatttt agatgtcaat atagcaatgt gcaagaagat 480
agagattttc aaaatttact taagagtatc tgagcataaa atgttaagat tgctgatcgn 540
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 600
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 660

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```
nnnnnnnnncg cgctccgctg aagaggacga ccatccccga tagaggagga ccggtcttcg 720
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tgctgatcta gggccactaa gtgatgaagc aaaaaggatg gctaaaaagg acctcaaccc 840
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aaaaatatttt ctttttgaag agccagattc cagtgatcct gcctctcaga aatttccaca 1080
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agcttaattt attttttata taaatagtat gtgctttgtg tacatagaga attaagttaa 1200
tgagtcacac agatgttggc tgttgtaaat gtgaaaatta aacagctgta tcacattttg 1260
aaaaataaaa gtttcatctg aatgaatata aaa 1293
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<210> 399

<211> 2521

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 209279.1

<400> 399

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cagtgcccaa tcccattgat agaaactcaa ccaatgcaaa cctcagcctg caagctccga 180
aggggcagag tgcaagccgg tagcttttgc ctcttgagc ccacagtcca gatggggaca 240
aaaaaagaga tagggacaca aagagtgtac actgagccag aggggtgaaa ggtgcttagg 300
agacatgagc tgcttggagg cagagtcctg cttggaagct gttggttgat tcctgggcaa 360
gccacttccc ctcttgggcc tgggttttca tctgtaaatg aaggcgtgga tccagatctc 420
cctctaagac tactccacgc ctcacgtgcc atttgttctc tgagtttccc atgttctcgc 480
ctcctactac ctageccctat gctaggactc tcccctccag gacacagtag ccagcctagc 540
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tgatgctaga actatgtatt catgctgaaa gtaaggggtt gggggcatcc aaccaggggc 1020
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